CLEAR STORAGE 1
 ,008015,019026,030,034041,045,053,0570571026
 1

 CLEAR STORAGE 2
 L068112,102106,113/101099/199,027A070028)027B0010270B0261,001/00111310
 2

 BOOTSTRAP
 ,008015,022029,036040,047054,061068,072/061039
 ,0010011040

1401 AUTOCODER-PASS 1-GENERATE SYSTEM TAPE-VERSION 3 3711L PAGE

S	EQ	PG	LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION	TYPE	CARD	
1	01	1	01	000	JOB	1401 AUTOCODER-PASS 1-GENERATE SYSTEM TAPE-VERSION	١ 3					
	02		02		CTL	630 1	· ·		4 - 4			
	03		03	SYSTP	EQU	(U1	•	(U1				
	04		04	CARD	EQU	0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0000				
	05		05	PRINT	EQU	200		0200				
	.06		06	_	ORG	87			0087			
	07	1	07	XR1	DCW	000	3	0089			4	
	08	1	08		DC	00	2	0091				
	.09	1	09	XR2	DCW	000	3	0094			4 4 4 4	
	10	1	10		DC	00	2	0096			4	
1	11	1	11	XR3	DCW	000	3	0099			4	
1	12	1	12		DC	00000	6	0105			4	
1	13	1	13	ZONE	DCW	2SKB	4	0109			4	
1	14	1	14	ABIT	EQU	ZONE-2		0107				
1	15	1	15	NOBIT	EQU	ZONE-3		0106				
1	16	1	16	XXXX	EQU	0		0000				
1	17	1	17	*								
1	18	1	18	* STAR	T OF	MAIN LINE						
1	19	1	19	#								
1	20	1	20		ORG	333			0333			
1	21	1	21	START	RWD	SYSTP	5	0333	U (U1 R		5	
1	22	1	22		CC	1	2	0338	F 1		5	
1	23	1	23		MCW	'GENERATING 1401 AUTOCODER SYSTEM', PRINT+32	7	0340	M #83 232		5	
1	24	1	24		W		1	0347	2		5 5 5 5 5 5	
1	25	1	25		CC	· 1	2	0348	F 1		5	
1	26	1	26		CS	PRINT+132	4	0350	/ 332		5	
1	27	1	27		CS		1	0354	/		5	
1	28	1	28		MCW	CARD+75, SEQNO=4	7	0355	M 075 #87		6	
1	29	1	29	#								
1	30	1	30	* STAR	T OF	NEXT BLOCK						
1	31	1	31	*								
1	32	1	32	NXTBK	R		1	0362	1		6	
1	33	1	33		C	CARD+12, *CONTROL*	7	0363	C 012 #94		6	
1	34	1	34		BU	MACRO	5	0370	B 792 /		6	
1	35	1	35		BWZ	CKSEQ, CARD+80, 2	8	0375	V 726 080 2		6	
1	36	1	36		BCE	EOJOB, CARD+78,9	8	0383	B 877 078 9		6 7	
1	37	1	37		SW	CARD+21	4	0391	, 021		7	
1	38	1	38		ZA	CARD+25, HOLD5=5	7	0395	+ 025 +99		7	
1	39	1	39		CM	CARD+21	4	0402) 021		7	
1	40	1	40	*					·			
1	41	1	41	* FLOA	T ADD	RESS TO FIVE CHARACTERS						
1	42	1	42	#								
	43		43	FLOAT	BCE	*+5,HOLD5,+	8	0406	B 418 #99 +		7	
	44		44		В	COMP1	4	0414	B 429		7	
	45		45		ZA	HOLD5-1, HOLD5	7	0418	+ +98 +99		7	
	46		46		В	FLOAT	4	0425	B 406		7	
1	47	1	47	*								

SEQ	PG	LIN	LABEL	0P	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
148	1	48	* TESI	ADDRE:	SS AGAINST HOME ADDRESS				
149	1	49	* TO 0	DEVELOP	INDEX VALUE				
150	1	50	*						
151	1	51	COMP1	MZ	NOBIT, HOLD5	7	0429	Y 106 ‡99	8
152	1	52		S	XR1+2	4	0436	S 091	8
153	1	53		C	HOLD5, *0150C*	7	0440	C ‡99 /04	8
154		54		BE	DOCOR	5	0447	B 538 S	8
155		55		ВН	SUB1	5	0452	B 527 U	8
156		56		S	'01500',HOLD5	7	0457	S /09 ‡9 9	8
157		57		MCW	'16000', WORK5=5	7	0464	M /14 /19	9
158		58	SUB2	S	HOLD5, WORK5	7	0471	S ‡99 /19	9
159		59	*						
160		60		ERT IN	DEX VALUE TO 3 DIGIT MACHINE ADDRESS				
161		61	#		_	_			
162		62	CNVRT	BAV	*+1	5	0478	B 483 Z	9
163		63		A	1961, WORK5-3	7	0483	A /21 /16	9
164		64		BAV	CNVRT+5	5	0490	B 483 Z	9
165		65		MZ	WORK5-4, WORK5	7	0495	Y /15 /19 D /16 512	9
166		66		MN	WORK5-3,*+4	7 7	0502 0509	Y 109 /17	10
167		67		MZ	ZONE, WORK5-2	7	0516	M /19 089	10 10
168		68		MCW	WORK5,XR1	4	0523	B 538	10
169 170		69 70	CHD1	B MCW	DOCOR *01500*,WCRK5	7	0527	M /26 /19	10
171		71	SUB1	B	SUB2	4	0534	B 471	10
172		72	*	D	3002	T	UJJT	D 411	10
173		73		CONDE	NSED CARDS				
174		74	* *	CONDE	13ED CARDS				
175		75	DOCOR	R		1	0538	1	10
176		76	DOCCI	MCW	'045',XR3	7	0539	M /29 099	11
177		77		MCW	'042', XR2	7	0546	M /32 094	īī
178		78		BWZ	CKSEQ, CARD+80,2	8	0553	V 726 080 2	11
179		79		BCE	WTAP1, CARD+68, B	8	0561	B 675 068 B	11
180		80		BCE	SETWM, CARD+40, N	8	0569	B 596 040 N	11
181		81		C	CARD+46, *001*	7	0577	C 046 /35	12
182		82		BE	SETWM	5	0584	B 596 S	12
183		83		MZ	ABIT.CARD+45	7	0589	Y 107 045	12
184		84	*						
185	1	85	* SET	RETURN	ADDRESS				
186		86	#						
187	1	87	SETWM	MCW	+DOCOR,CARD+71	7	0596	M /38 071	12
188	1	88		MCW	1B1	4	0603	M /39	12
189	1	89	*						
190	1	90	* INDE	EX WORD	MARK ADDRESSES				
191	1	91	*						
192		92	COMP2	С	XR2, 10631	7	0607	C 094 /42	12
193		93		BE	CARD+40	5	0614	B 040 S	13
194		94		A	+7, XR3	7	0619	A /43 099	13
195		95		A	+7, XR2	7	0626	A /43 094	13
196		96		C	CARD+1+X2, 10401	7	0633	C 0-1 /46	13
197	1	97		BE	*+8	5	0640	B 652 S	13

1401 AUTOCODER-PASS 1-GENERATE SYSTEM TAPE-VERSION 3

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SEQ	PG LIN	LABEL	OP	OPERANDS		SFX CT	LOCN	INSTRUCTION	TYPE	CARD
198	1 98		MZ	ABIT, CARD+X2		7	0645	Y 107 0-0		13
199	1 99		C	CARD+1+X3, *040*	• **	7	0652	C 0+1 /46		14
200	2 00		BE	COMP2		5	0659	B 607 S		14
						7	0664	Y 107 0+0		14
201	2 01		MZ	ABIT, CARD+X3		4	0671	B 607		14
202	2 02		В	COMP2		*	0011	וטס מ		14
203	2 03	* ***		OU TARE						
204 205	2 04 2 05	* MKII	E CURE	ON TAPE				•		
206	2 06	WTAP1	LCA	1 1,3998		7	0675	L /47 198		14
207	2 07	NIAL E	WTW	SYSTP, 1500		8	0682	L (U1 VOO W	l	14
208	2 08		BER	WTERR		5	0690	B 973 L	•	15
209	2 09	#	ULIN	NI LIVI		_		0 3.0 2		
210	2 10		R INPU	T ADEA						
211	2 11	*	IX THEO	i anca						
212	2 12	•	MCW	*199*,CLEAR+3		7	0695	M /50 705		15
213	2 13	CLEAR	CS	XXXX	Sec.	4	0702	/ 000		15
		CLEAR	SBR			4	0706	H 705		15
214	2 14			CLEAR+3		7	0710	C 705 /53		15
215	2 15		C	CLEAR+3, 1U991		5		B 702 /		15
216	2 16		BU	CLEAR			0717			15
217	2 17		В	NXTBK	·	4	0722	B 362		13
218	2 18	*		0.50.51.05						
219	2 19	* CHEC	K CARD	SEQUENCE						
220	2 20	*								• •
221	2 21	CKSEQ	SBR	SEQXT+3		4	0726	H 759		16
222	2 22		A	+1,SEQNO		7	0730	A /54 #87		16
223	2 23		C	CARD+75, SEQNO		7	0737	C 075 +87		16
224	2 24		MCW	CARD+75, SEQNO		7	0744	M 075 #87		16
225	2 25		BU	SEQER		5	0751	B 760 /		16
226	2 26	SEQXT	В	XXXX		4	0756	B 000		16
227	2 27	*								
228	2 28	* CARD	SEQUE	NCE ERROR						
229	2 29	*								
230	2 30	SEQER	MCW	CARD+80, PRINT+80		7	0760	M 080 280		17
231	2 31		CHAIN	6					MACRO	
232			MCW			1	0767	M	GEN	17
233			MCW			1	0768	М	GEN	17
234			MCW			1	0769	M	GEN	17
235			MCW			1	0770	М	GEN	17
236			MCW			1	0771	M	GEN	17
237			MCW			1	0772	M	GEN	17
238	2 32		MCW	'SEQUENCE ERROR', PRINT+98		7	0773	M /68 298		18
239	2 33		W			1	0780	2		18
240	2 34		H	0,176		7	0781	. 000 176		18
241	2 35		В	DOSEQ		4	0788	B 941		18
242	2 36		J	000E W		*	5,00	- ··•		
242	2 37	# BBOC	ECC MA	CRO LIBRARY						
244	2 38	* FRUC	LJJ MA	ONG CIDINANI						
244	2 39	MACRO	NOP	CRDER		4	0792	N 917		18
245	2 40	PIMERU	_	CARD+20, "HEADR"		7	0796	C 020 /73		18
			C			5	0803	B 917 /		18
247	2 41		BU	CRDER		,	0005	U 71.1 /		10

SEQ	PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
248	2 42		BWZ	CKSEQ,CARD+80,2	8	0808	V 726 080 2	19
249	2 43		MCW	*B*,MACRO	7	0816	M /39 792	19
250	2 44		LCA	* *,CARD+81	7	0823	L /47 081	19
251	2 45	*		• • • • • • • • • • • • • • • • • • • •	•			
252	2 46	* WRIT	F SKE	LETON INSTRUCTIONS ON TAPE				
253	2 47	#						
254	2 48	WTAP2	WT	SYSTP, CARD+1	8	0830	M (U1 001 W	19
255	2 49		BER	WTERR	5	0838	B 973 L	19
256	2 50		C	CARD+11, '999999'	7	0843	C 011 /79	20
257	2 51		BE	WTTM	5	0850	B 868 S	20
258	2 52		R		1	0855	1	20
259	2 53		BWZ	CKSEQ, CARD+80,2	8	0856	V 726 080 2	20
260	2 54		В	WTAP2	4	0864	B 830	20
261	2 55	WTTM	WTM	SYSTP	5	0868	U (U1 M	20
262	2 56	*****	В	NXTBK	4	0873	B 362	20
263	2 57	#	-					
264	2 58	* END	OF GET	NERATION				
265	2 59	*						
266	2 60	EOJOB	WTM	SYSTP	5	0877	U (U1 M	21
267	2 61		RWD	SYSTP	5	0882	U (U1 R	21
268	2 62		CW	1 1	4	0887) /47	21
269	2 63		ÇS	PRINT+132	4	0891	/ 332	21
270	2 64		ĊS		1	0895	/	21
271	2 65		MCW	11401 AUTOCODER SYSTEM GENERATED ON TAPE UNIT 11,246		0896	M S25 246	21
272	2 66		W		ì	0903	2	21
273	2 67		СС	1	2	0904	F 1	22
274	2 68	*		-	•	• • • •	• -	
275	2 69	* FINA	L HAL	Ţ				
276	2 70	*						
277	2 71	HALT	Н	0,142	7	0906	. 000 142	22
278	2 72		В	HALT	4	0913	B 906	22
279	2 73	#						
280	2 74	* MISS	ING CO	ONTROL CARD				
281	2 75	*						
	2 76	CRDER	CS	PRINT+132	4	0917	/ 332	22
283	2 77		CS		1	0921	/	22
284	2 78		MCW	'SYSTEM CONTROL CARD MISSING', PRINT+27	7	0922	M S52 227	22
285	2 79		W	•	1	0929	2	22
286	2 80	HALT2	Н	0,177	7	0930	. 000 177	23
287	2 81		В	HALT2	4	0937	B 930	23
288	2 82	*						
289	2 83	* AFTE	R SEQU	JENCE ERROR, CHECK BALANCE OF DECK				
290	2 84	*		•				
291	2 85	DOSEQ	R		1	0941	1	23
292	2 86		BWZ	CKSEQ, CARD+80,2	8	0942	V 726 080 2	23
293	2 87		BCE	ENDSQ, CARD+78, 9	8	0950	B 962 078 9	23
294	2 88		В	DOSEQ	4	0958	B 941	23
295	2 89	ENDSQ	Н	0,152	7	0962	. 000 152	23
296	2 90		В	ENDSQ	4	0969	B 962	24
297	2 91	*	-		•			

SEQ PG L	IN LAB	EL OP	OPERANDS	SFX	СТ	LOCN	INSTRUCTION	TYPE	CARD
298 2 9 299 2 9		RITE RE	DUNDANCY ROUTINE						
300 2 9		RR SBR	WTXT+3		4	0973	H ‡3 6		24
301 2 9		SBR	XR3		4	0977	Н 099		24
302 2 9		MZ	+9,XR3		7	0981	Y S53 099		24
303 2 9		MCW	4000-6+X3,RETRY+7		7	0988	M 114 ±27		24
304 2 9					5	0995	U (U1 B	** **	24
		SKP	CVCTD		5	1000	U (U1 E		24
305 2 9 306 3 0		BCE			8	1005	B +37 S54 1		25
			+1, WTCT=2		7	1013	A /54 \$55		25
307 3 0		A DV UT			8	1020	M (U1 000 W		25
308 3 0			SYSTP,XXXX		5	1028	B 995 L		25
309 3 0		BER T 0			4	1028	8 000		25
310 3 0			XXXX		•	1037	S S55		25
311 3 0			WTCT		4				
312 3 0		H	0,161		7	1041	. 000 161		26
313 3 0		В	RETRY		4	1048	B ‡20		26 27
	23	DCW	GENERATING 1401 AUTOCODER SYSTEM		32	1083		LIT	27
	28 SEQ	NO	=04		4	1087		AREA	27
	33		'CONTROL'		7	1094		LIT	28
	38 HOL	D 5	=05		5	1099		AREA	28
	53		'01500'		5	1104		LIT	28
	56		*01500*		5	1109		LIT	28
	57		'16000'		5	1114		LIT	28
1	57 WOR	K5	=05		5	1119		AREA	28
			1961		2	1121		LIT	28
1	70		*01500 *		5	1126		LIT	29
			'045'		3	1129		LIT	29
			'042'		3	1132		LIT	29
			'001'		3	1135		LIT	29
1	87		+DOCOR		3	1138	538	ADCON	29
			B		1	1139		LIT	29
			'063'		3	1142		LIT	29
			+7		1	1143		LIT	30
			' 040'		3	1146		LIT	30
			• •		1	1147		LIT	30
			11991		3	1150		LIT	30
			•099•		3	1153		LIT	30
			+1		1	1154		LIT	30
2	38		'SEQUENCE ERROR'		14	1168		LIT	30
	46		"HEADR"		5	1173		LIT	31
	56		19999991		6	1179		LIT	31
	71		1401 AUTOCODER SYSTEM GENERATED ON TAPE UNIT 1		46	1225		LIT	33
	84		'SYSTEM CONTROL CARD MISSING'		27	1252		LIT	33
-			+9		1	1253		LIT	33
2	O7 WTC	T	=02		2	1255		AREA	33
314 3 0		EX	START		_		B 333		34
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SEQ PG L	N LABEL	OP	OPERANDS		SFX C	T	LOCN	INSTRUCTION TYPE	CARD
315 3 09		JOB	1401 AUTOCODER-PASS 1 SELECT PROGRAM	-VERSION	3				
316 3 10		SFX	В		-				
317 3 11			1650		В		1650		
318 3 12			1900		В		1900		
319 3 13	SYSTP	EQU	(U1		8		(U1		
320 3 14	*								
321 3 15	# BRA	NCH FR	DM TAPE LOAD BUTTON						
322 3 16	#		·						
323 3 1		ORG	1		В			0001	
324 3 18		В	333		В	4	0001	В 333	37
325 3 19		Н	*-3		В	4	0005	. 005	37
326 3 20			15991		В	3	0011		37
327 3 21		DRG	87		В	_		0087	• •
328 3 22		DCW	000		В	3	0089		38
329 3 23		DC	00		В	2	0091		38
330 3 24		DCW	000		В	3	0094		38
331 3 25		DC	00		В	2	0096		38
332 3 26		DCW	000		В	3	0099		38 38
333 3 27		DC	00		В	2	0101		20
334 3 28 335 3 29		IN PRO	D AM						
336 3 30		IN PRO	JNAP						
337 3 31		ORG	333		В			0333	
338 3 3		BER	HALT1		B	5	0333	B 407 L	39
339 3 33		SW	GMRK1		B	4	0338	, 835	39
340 3 34			3999		8	4	0342	/ 199	39
341 3 35		SBR	CLEAR+3		В	4	0346	H 345	39
342 3 36		C	CLEAR+3,'U99'		В	7	0350	C 345 787	39
343 3 3		BU	CLEAR		В	5	0357	B 342 /	39
344 3 38									
345 3 39		PAST	IBRARY						
346 3 40									
347 3 41	LOOP1	SW	GMRK1		В	4	0362	, 835	39
348 3 42		RT	SYSTP,GMRK1-21	•	В	8	0366	M (U1 814 R	40
349 3 43		С	GMRK1-2, 999999 HEADR		В	7	0374	C 833 802	40
350 3 44		BU	LOOP1		В	5	0381	B 362 /	40
351 3 49		SW	GMRK1		В	4	0386	, 835	40
352 3 46		RT	SYSTP, GMRK1-1		В	8	0390	M (U1 834 R	40
353 3 47		BEF	TSTSS		В	5	0398	B 418 K	40
354 3 48		В	LOOP1		₿	4	0403	B 362	41
355 3 49									
356 3 50		UNDANC	Y ON TAPE LOAD						
357 3 51			A 100			-	0/07	000 100	
358 3 52			0,199		В		0407	. 000 199	41
359 3 53		В	HALT1					B 407	41
360 3 54		BSS	LIBRN, F		В	フ	0418	8 521 F	41
361 3 55		DIEVE !	PASS 2 FOR ASSEMBLY RUN						
362 3 56 363 3 57		VICAE	TADD & FUN ADDEROLI NUN						
364 3 58		SW	GMRK1		В	4	0423	, 835	41
יכ כ דטכ) M	OHIVIN #		U	4	UTED	¥ 032	41

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SEQ	PG LIN	LABEL	OP	OPERANDS			SEX C	LOCN	INSTRUCTION TYPE	CARD
365	3 59		LCA	GMRK1,3998			В	0427	L 835 198	41
366	3 60		MCW	+PASSA+13,NOIS2+6				0434	M 805 658	41
367	3 61	*								
368	3 62	* GET	PAST	LIBRARIAN						
369	3 63	#								
370	3 64	LOOP 2	BCE	LDPSA,BYCT,4		E 11.11 M 11.10 M 10.00 M 10.00 M 11.10 M 1	B (B 476 807 4	42
371	3 65		SW	3998				0449	, I98	42
372	3 66		RTW	SYSTP, PASSA			В (L (U1 W50 R	42
373	3 67		В	NOISE			-	0461	B 637	42
374	3 68		Α	+1,BYCT=1			B .		A 806 807	42
375	3 69		В	LOOP2			В	0472	B 441	42
376	3 70	*								
377	3 71	* PASS	S 2 FO	UND						
378	3 72	*								
379	3 73	LDPSA	RTW	SYSTP, PASSA				0476	L (U1 W50 R	43
380	3 74		В	NOISE			8		B 637	43
381	3 75		BER	RDERR				0488	B 676 L	43
382	3 76		CW	GMRK1				0493) 835	43
383	3 77	CLR	CS	PASSA-1			-	0497	/ W49	43
384	3 78		SBR	CLR+3			-	0501	H 500 C 500 011	43 43
385	3 79		C	CLR+3,LOADD					B 497 /	43 44
386	3 80		BU	CLR				0512	B Z00	44
387	3 81		В	DOPSA			ь .	0511	B 200	. 77
388	3 82	* 1 7 0 1		4 4 % 3						
389 390	3 83 3 84	* LIBF	KAKT K	UN						
391	3 85	LIBRN	MCW	'-13',NOIS2+6			В	0521	M 810 658	44
392	3 86	LIDKN	CW	GMRK1				0528) 835	44
393	3 87		BSS	OUTPT.B				0532	B 558 B	44
394	3 88	#	533	OOTF I D			υ.	UJJE	0 230 B	7.7
395	3 89		RIEVE	UPDATE PROGRAM						
396	3 90	* 1/611	11616	OF DATE TROOKAT						
397	3 91		RTW	SYSTP,2000			В	0537	L (U1 -00 R	44
398	3 92		В	NOISE				0545	B 637	44
399	3 93		BER	RDERR				0549	B 676 L	45
400	3 94		В	2000				0554	B -00	45
401	3 95	#	- .							
402	3 96	* RETI	RIEVE	OUTPUT PROGRAM						
403	3 97	#								
404	3 98	OUTPT	RTW	SYSTP,2000			В 8	0558	L (U1 -00 R	45
405	3 99		В	NOISE			В 4	0566	B 637	45
406	4 00		SW	GMRK1			8	0570	, 835	45
407	4 01		LCA	GMRK1,3998			_	0574	L 835 I98	45
408	4 02		RTW	SYSTP,2000			B (L (U1 -00 R	46
409	4 03		В	NOISE			_	0589	B 637	46
410	4 04		RTW	SYSTP,2000			B (L (U1 -00 R	46
411	4 05		В	NOISE			-	0601	B 637	46
412	4 06		SW	3998			B 4		, 198	46
413	4 07		RTW	SYSTP,2000			B (L (U1 -00 R	46
414	4 08		В	NOISE			В	0617	B 637	47

SEQ	PG LIN	LABEL	OP	OPERANDS	SFX	СТ	LOCN	INSTRUCTION	TYPE	CARD
					_	_				
415	4 09		BER	RDERR	В	5	0621	B 676 L		47
416	4 10		CM	GMRK1,3998	В	7	0626) 835 198		47
417	4 11		8	2000	В	4	0633	B -00		47
418	4 12	*								
419 420	4 13 4 14	* TEST	FOR N	OISE RECORDS						
421	4 15	NOISE	SBR	NOSXT+3	В	4	0637	H 675		47
422	4 16		SBR	XR1	В	4	0641	H 089		47
423	4 17		MZ	+9, XR1	В	7	0645	Y 811 089		47
424	4 18	NOIS2	BCE	4000-12+X1,0,	В	8	0652	B IY8 000		48
425	4 19		CHAIN	12					MACRO	
426			BCE		В	1	0660	В	GEN	48
427			BCE		В	1	0661	В	GEN	48
428			BCE		В	1	0662	В	GEN	48
429			BCE		В	1	0663	В	GEN	48
430			BCE		В	1	0664	В	GEN	48
431			BCE		В	1	0665	В	GEN	48
432			BCE		В	1	0666	В	GEN	49
433			BCE		В	1	0667	В	GEN	49
434			BCE		В	1	0668	8	GEN	49
435			BCE		В	1	0669	В	GEN	49
436			BCE		В	1	0670	В	GEN	49
437			BCE		В	1	0671	В	GEN	49
438	4 20	NOSXT	В	0	В	4	0672	В 000		49
439	4 21	*								
440	4 22	* READ	REDUN	DANCY ROUTINE						
441	4 23	*								
442	4 24	RDERR	SBR	XR1	В	4	0676	H 089		50
443	4 25		SBR	RDXT+3	В	4	0680	H 726		50
444	4 26		MZ	+9,XR1	В	7	0684	Y 811 089		50
445	4 27		MCW	4000-10+X1,RDTRY+7	В	7	0691	M 1ZO 717		50
446	4 28	BSP	BSP	SYSTP	8	5	0698	U (U1 B		50
447	4 29		MCW	+9,RDCT=1	В	7	0703	M 811 812		50
448	4 30	RDTRY	RTW	SYSTP,0	В	8	0710	L (U1 000 R		51
449	4 31		BER	*+5	В	5	0718	B 727 L		51
450	4 32	RDXT	В	0	В	4	0723	B 000		51
451	4 33		BSP	SYSTP	В	5	0727	U (U1 B		51
452	4 34		S	+1,RDCT	В	7	0732	S 806 812		51
453	4 35		BWZ	RDTRY, RDCT, B	В	8	0739	V 710 812 B		51
454	4 36		Н	0,191	В	7	0747	. 000 191		52
455	4 37		MCW	RDTRY+7,*+8	В	7	0754	M 717 768		52
456	4 38		RTW	SYSTP,0	В	8	0761	L (U1 000 R		52
457	4 39		BSS	BSP,E	В	5	0769	B 698 E		52
458	4 40		Н	0,111	В	7	0774	. 000 111		52
459	4 41		В	RDXT	В	4	0781	B 723		52
460	4 42		LTORG		В	_		0785		
	_		DCW	10991	В	3	0787		LIT	53
	349			1999999 HEADR1	В	15	0802		LIT	53
	366			+PASSA+13	В	3	0805	W63	ADCON	53
				+1	В	1	0806		LIT	53

SEQ PG LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD	
374	вуст		=01	B	1	0807		AREA	53	
			1-131	В	3	0810		LIT	53	
			+9	В	1	0811		LIT	53	
447	RDCT		=01	В	1	0812		AREA	54	
461 4 43		DCW	=22	В	22	0834			54	
462 4 44	GMRK1	DCW	1 1	В	1	0835			54	
463 4 45		ΕX	o de la companya del companya de la companya del companya de la co	8			B 000	****	55	

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SEQ	PG L	IN	LABEL	OP	OPERANDS	SFX	СТ	LOCN	INSTRUCTION	TYPE	CARD
464	4 4			JOB	1401 AUTOCODER-PASS 1 RETRIEVE UPDATE -VERSION	3					
465	4 4		CVCTD	SFX	R			7113			
466 467	4 4		SYSTP LTAPSW	EQU EQU	(U1 2725	R R		(U1 2725			
468	4 5		LIMPON	ORG	2000	R		2123	2000		
469	4 5			BSS	LIST, G	R	5	2000	B J26 G		58
470	4 5			CW	ENDRT	Ŕ	4	2005) K12		58
471	4 5		START	RTW	SYSTP,1	R	8	2009	L (U1 001 R		58
472	4 5			BCE	START,013,	R	8	2017	B -09 013		58
473	4 5	55		CHAIN	12		•	2025		MACRO	.
474 475				BCE BCE		R R	1	2025 2026	8 8	GEN GEN	58 58
476				BCE		R	1	2027	В	GEN	58
477				BCE		R	î	2028	В	GEN	59
478				BCE		R	ī	2029	В	GEN	59
479				BCE		R	1	2030	В	GEN	59
480				BCE		R	1	2031	8	GEN	59
481				BCE		R	1	2032	В	GEN	59
482				BCE		R	1	2033	В	GEN	59 50
483 484				BCE BCE		R R	1 1	2034 2035	В В	GEN GEN	59 60
485				BCE		R	î	2036	В	GEN	60
486	4 5	6		BER	RDERR	R	5	2037	B -46 L	V	60
487	4 5			В	333	R	4	2042	B 333		60
488	4 5		RDERR	BSP	SYSTP	R	5	2046	U (U1 B		60
489	4 5			MCW	+9,RDCT=1	R	7	2051	M K06 K07		60
490	4 6		RDTRY	RTW	SYSTP,1	R	8	2058	L (U1 001 R		60
491	4 6			BER	*+5 222	R	5	2066	B -75 L		61
492 493	4 6			B BSP	333 SYSTP	R R	4 5	2071 2075	B 333 U (U1 B		61 61
494	4 6			\$	+1,RDCT	R	7	2080	S K08 K07		61
495	4 6			BWZ	RDTRY, RDCT, B	R	8	2087	V -58 K07 B		61
496	4 6			Н	0,191	R	7	2095	. 000 191		61
497	4 6		AGAIN	RTW	SYSTP,1	R	8	2102	L (U1 001 R		62
	4 6			BSS	RDERR, E	R	5		B -46 E		62
499	4 6			H	0,111	R	7	2115	. 000 111		62
500 501	47		LIST	B S₩	333 ENDRT	R R	4	2122 2126	B 333 • K12		62 62
502	4 7		CISI	LCA	ENDRT, 1998	R	7		L K12 Z98		62
503	4 7			RTW	SYSTP,333	R	8	2137	L (U1 333 R		63
504	4 7			BEF	GET	R	5	2145	B J54 K		63
505	4 7			В	LIST	R	4	2150	B J26		63
506	4 7		GET	BSP	SYSTP	R	5	2154	U (U1 B		63
507	4 7			BSP	SYSTP	R	5		U (U1 B		63
508 509	47			CM CM	ENDRT, 1998	R	7	2164 2171) K12 Z98 , P25		63 63
510	4 8			SW MCW	LTAPSW *333*,RDTRY+6	R R	7	2175	M K11 -64		64
511	4 8			MCW	*333*,AGAIN+6	R	7	2182	M K11 J08		64
512	4 8			RTW	SYSTP,333	R	8	2189			64
513	4 8			BER	RDERR	R	5	2197	B -46 L		64

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	СТ	LOCN	INSTRUCTION	TYPE	CARD
514 515				B LTORG	333 *	R R	4	2202	B 333 2206		64
				DCW	+9	R	1	2206		LIT	64
		489	RDCT		=01	R	1	2207		AREA	64
					+1	R	1	2208		LIT	65
					13331	Ř	3	2211		LIT	65
516	4	86	ENDRT	DCW	1 1	R	1	2212			65
517	4	87		ΕX	0	R			B 000		66

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1401 AUTOCODER-PASS 1 RETRIEVE UPDATE

SEQ	PG LIN	LABEL	OP	OPERANDS		SFX	ст	LOCN	INSTRUCTION TYPE	CARD
518	4 88		JOB	1401 AUTOCODER-PASS 1 COPY SYSTE	TAPE -VERSION	3				
519	4 89		SFX	U						
520	4 90		ORG	87		U			0087	,
521	4 91	XR1	DCW	000		Ü	3	0089		69
522	4 92		DC	00		Ū	2	0091		69
523	4 93	XR2	DCW	000		U	3	0094		69
524	4 94		DC	00		U	2	0096		69
525	4 95	XR3	DCW	000		U	3	0099		69
526	4 96		DC	00		U	2	0101		69
527	4 97	SYSTP	EQU	(U1		U		(U1		
528	4 98	OUTAP	EQU	(U6		U		(U6		
529	4 99	INPUT	EQU	1500		U		1500		
530	5 00	*								
531	5 01	* BEGI	N PRO	RAM						
532	5 02	#								
533	5 03		ORG	333		U			0333	
534	5 04		SW	ENDUP		U	4	0333	, /39	70
535	5 05		RWD	SYSTP		U	5	0337	U (U1 R	70
536	5 06		RWD	OUTAP		U	5	0342	U (U6 R	70
537	5 07		CC	1		U	2	0347	F 1	70
538	5 08		CS	332		U	4	0349	/ 332	70
539	5 09		CS			U	1	0353	/	70
540	5 10		В	CLEAR		U	4	0354	B #21	70
541	5 11		BSS	COPY,C		U	5	0358	B 525 C	71
542	5 12	* - DETO		LODATE BOOCDAN						
543	5 13		TEAE C	PDATE PROGRAM						
544 545	5 14	*	n Tu	CVCTD TAIDLET		1.1	٥	0363	L (U1 VOO R	71
545 546	5 15		RTW SBR	SYSTP, INPUT XR1		U	8 4	0363	H 089	71 71
547	5 16 5 17		MN	0+X1		U	4	0375	D 0‡0	71
	5 18		SW	UTAI		Ü	1	0379		71
548 549	5 19		DCW	*N0000*		U	5	0384	•	71
550	5 20		В	NOISE		Ü	4	0385	B 759	71
551	5 21		BER	RDERR		Ü	5	0389	B 798 L	72
552	5 22		WTW	OUTAP, INPUT		Ü	8	0394	L (U6 V00 W	72
553	5 23		BER	WTERR		Ŭ	5	0402	B 928 L	72
554	5 24		В	CLEAR		Ū	4	0407	B ‡21	72
555	5 25	BYPSS	RTW	SYSTP, INPUT		Ū	8	0411	L (U1 VOO R	72
556	5 26		C	INPUT+19, 1999999 HEADR1		Ü	7	0419	C V19 +70	72
557	5 27		ВU	BYPSS	•	U	5	0426	B 411 /	73
558	5 28		RTW	SYSTP, INPUT		U	8	0431	L (U1 VOO R	73
559	5 29		BEF	GETUP		U	5	0439	B 448 K	73
560	5 30		В	BYPSS		U	4	0444	B 411	73
561	5 31	GETUP	BCE	LDUPD, BYCT, 3		U	8	0448	B 498 ‡72 3	73
562	5 32		RTW	SYSTP, INPUT		U	8	0456	L (U1 VOO R	73
563	5 33		DCW	*N000000000000		U	14	0477		74
564	5 34		В	NOISE		U	4	0478	В 759	74
565	5 35		BER	RDERR		U	5	0482	B 798 L	74
566	5 36		A	+1,BYCT=1		U	7	0487	A +71 +72	74
567	5 37		В	GETUP		U	4	0494	B 448	74

SEQ PG LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION TYPE CARD
4					,	0/00	7.100
568 5 38	LDUPD	CS	199	U	4	0498	/ 199 74
569 5 39		CS	80	U	4	0502	/ 080 75
570 5 40		SW	6,16	U	7	0506	, 006 016 75
571 5 41		SW	21	U	4	0513	, 021 75
572 5 42		В	HEAD	U	4	0517	B N32 75
573 5 43		В	BEGIN	U	4	0521	B V00 75
574 5 44	*						
575 5 45	* COPY	SYSTE	M				
576 5 46	*				_		
577 5 47	COPY	RTW	SYSTP, INPUT	U	8	0525	L (U1 VOO R 75
578 5 48		SBR	XR1	U	4	0533	H 089 75
579 5 49		MN	0+X1	U	4	0537	D 0+0 76
580 5 50		SW		U	1	0541	, 76
581 5 51		BEF	EOF	U	5	0542	B 601 K 76
582 5 52		В	NOISE	U	4	0547	8 759 76
583 5 53		BER	RDERR	U	5	0551	B 798 L 76
584 5 54	*						
585 5 55	* TEST	END O	F LIBRARY				
586 5 56	*						
587 5 57	SWICH	NOP	WTAP1	U	4	0556	N 580 76
588 5 58		SW	LIBSW	U	4	0560	, ‡79 76
589 5 59		Ċ	INPUT+10, 19999991	U	7	0564	C V10 +78 77
590 5 60		BU	WTAP1	U	5	0571	8 580 / 77
591 5 61		CW	LIBSW=1	Ü	4	0576) +79 77
592 5 62	*	•					
593 5 63	* WRIT	F TAPE					
594 5 64	*						
595 5 65	WTAP1	WTW	OUTAP, INPUT	U	8	0580	L (U6 VOO W 77
596 5 66	WINIT	BER	WTERR	Ŭ	5	0588	B 928 L 77
597 5 67	*	DEN	HILION	•		0,000	5 725 2
598 5 68	* DO N	EVT RI	טרא				
599 5 69	* 00 14	CAI DE	OUN				
600 5 70	REOUT	В	CLEAR	U	4	0593	B #21 77
	KEUUI	В	COPY	Ü	4	0597	8 525 77
601 5 71		Ð	CUPT	U	7	0,7,1	0 323
602 5 72 603 5 73	# END	05 611	c				
	* END	OF FIL	C				
604 5 74	*	+ + T M	CUTAD	υ	5	0601	U (U6 M 78
605 5 75	EOF	WTM	OUTAP	U	8	0606	V 727 ±80 1 78
606 5 76		B₩	ISMOR, EOFSW=1		4	0614	B #21 78
607 5 77		В	CLEAR	U			
608 5 78		LCA	ENDUP, 3998	U	7	0618	L /39 I98 78
609 5 79		₿₩	ERASE, UPDSW	U	8	0625	V 637 /26 1 78
610 5 80		В	HALT1	U	4	0633	B 669 78
611 5 81	* 50.40						
612 5 82	* ERAS	E TAPE					
613 5 83	*			ية ي	_		
614 5 84	ERASE	SKP	OUTAP	U	5	0637	U (U6 E 79
615 5 85		WT	OUTAP, INPUT	U	8	0642	M (U6 V00 W 79
616 5 86		BCE	HALT1,SKPCT-1,2	U	8	0650	8 669 ‡81 2 79
617 5 87		A	+1,SKPCT=2	U	7	0658	A ‡71 ‡82 79

SEQ	PG LIN	LABEL	OP	OPERANDS	SFX	СТ	LOCN	INSTRUCTION	TYPE	CARD
618	5 88		8	ERASE	U	4	0665	B 637		79
619	5 89	*	_		_	_	•			
620	5 90	* END	OF COP	Y RUN						
621	5 91	*								
622	5 92	HALTI	MCW	'1401 AUTOCODER SYSTEM COPIED ON TAPE UNIT 6',243	U	7	0669	M /25 243		79
623	5 93		W		U	1	0676	2		80
624	5 94		CC	1	U	2	0677	F 1		80
625	5 95		BW	CPYND, UPDSW=1	U	8	0679	V 692 /26 1		80
626	5 96		RWD	OUTAP	U	5	0687	U (U6 R		80
627	5 97	CPYND	RWD	SYSTP	U	5	0692	U (U1 R		80
628	5 98		Н	0,122	U	7	0697	. 000 122		80
629	5 99		В	CLEAR	U	4	0704	B ‡21		80
630	6 00		S	SKPCT	U	4	0708	S #82		81
631	6 01		MCW	'N', SWICH	U	7	0712	M /27 556		81
632	6 02		SW	EOFSW	U	4	0719	, +80		81
633	6 03		В	COPY	U	4	0723	B 525		81
634	6 04	*		W OF DECT OF CHOTEN						
635	6 05		UP CUP	Y OF REST OF SYSTEM						
636	6 06	*	0.11	BB505 1705H		0	0727	V 750 470 1		0.1
637	6 07	ISMOR	BW	BDEOF, LIBSW	U	8	0727 0735	V 750 +79 1	•	81
638	6 08		CW	EOFSW	U	4	0739)		81
639	6 09		MCW	'B', SWICH	U	4	0746	B 593		81 82
640	6 10		В	REOUT	U	4	0140	0 272		02
641 642	6 11 6 12	# EA10	C END	OF FILE	*					
643	6 13	* FALS	E CHD	UF FILE						
644	6 14	BDEOF	BSP	OUTAP	U	5	0750	U (U6 B		82
645	6 15	וטבטו	В	REDUT	Ŭ	4	0755	B 593		82
646	6 16	*	U	12001	•	•	0175	0 773		V &
647	6 17		FOR N	OISE RECORDS						
648	6 18	*	1 011 11	STOE NEGOTION						
649	6 19	NOISE	SBR	NOSXT+3	U	4	0759	H 797		82
650	6 20	,,,,,,,	SBR	XR2	ŭ	4	0763	H 094		82
651	6 21		MZ	+9,XR2	ũ	7	0767	Y /29 094		82
652	6 22	NOIS2	BCE	4000-26+X2, INPUT+13,	Ū	8	0774	B IP4 V13		82
653	6 23		CHAIN						MACRO	
654			BCE		U	1	0782	В	GEN	83
655			BCE		U	1	0783	В	GEN	83
656			BCE		U	1	0784	В	GEN	83
657			BCE		U	1	0785	В	GEN	83
658			BCE		U	1	0786	В	GEN	83
659			BCE		U	1	0787	В	GEN	83
660			BCE		U	1	0788	В	GEN	83
661			BCE		U	1	0789	В	GEN	84
662			BCE		U	1	0790	В	GEN	84
663			BCE		U	1	0791	В	GEN	84
664			BCE		U	1	0792	В	GEN	84
665			BCE	•	U	1	0793	В	GEN	84
666	6 24	NOSXT	В	0	U	4	0794	B 000		84
667	6 25	*								

SEQ	PG LIN	LABEL	OP	OPERANDS	SFX	ст	LOCN	INSTRUCTION	TYPE	CARD
668 669	6 26 6 27	* READ	REDUI	NDANCY ROUTINE						
670	6 28	RDERR	SBR	RDXT+3	U	4	0798	H 855		84
671	6 29	RDERR	SBR	XR3	ŭ	4	0802	H 099		85
672	6 30		MZ	+9,XR3	Ŭ	7	0806	Y /29 099		85
673	6 31		MCW	4000-24+X3,RDTRY+7	Ŭ	7	0813	M 166 846		85
674	6 32		MN	RDTRY+3,BSP1+3	Ü	7	0820	D 842 830		85
675	6 33	BSP1	BSP	SYSTP	Ü	5	0827	U (U1 B		85
676	6 34	0.5,1 1	MCW	+9,RDCT=1	Ŭ	7	0832	M /29 /30		85
677	6 35	RDTRY	RT	SYSTP.0	ŭ	8	0839	M (U1 000 R		86
678	6 36	KOTKT	BER	*+5	Ŭ	5	0847	B 856 L		86
679	6 37	RDXT	В	0	Ŭ	4	0852	B 000		86
680	6 38	NOAT	MN	RDTRY+3,BSP2+3	Ŭ	7	0856	D 842 866		86
681	6 39	BSP2	BSP	SYSTP	Ŭ	5	0863	U (U1 B		86
682	6 40	931 2	S	+1,RDCT	Ŭ	7	0868	S +71 /30		86
683	6 41		BWZ	RDTRY, RDCT, B	Ŭ	8	0875	V 839 /30 B		87
684	6 42		MN	RDTRY+3,*+7	Ŭ	7	0883	D 842 896		87
685	6 43		Н	0,190	Ŭ	7	0890	. 000 190		87
686	6 44		MCW	RDTRY+7,*+8	Ŭ	7	0897	M 846 911		87
687	6 45		RT	SYSTP,0	Ŭ	8	0904	M (U1 000 R		87
688	6 46		BSS	BSP1.E	Ŭ	5	0912	B 827 E		88
689	6 47		Н	0,111	Ŭ	7	0917	. 000 111		88
690	6 48		В	RDXT	Ü	4	0924	B 852		88
691	6 49	*	_		•	•				
692	6 50		E REDI	UNDANCY ROUTINE						
693	6 51	#	_ ,,,							
694	6 52	WTERR	SBR	WTXT+3	U	4	0928	H 998		88
695	6 53		SBR	XR3	Ū	4	0932	H 099		88
696	6 54		MZ	+9,XR3	Ü	7	0936	Y /29 099		88
697	6 55		MCW	4000-6+X3,WTTRY+7	U	7	0943	M II4 989		88
698	6 56		MN	WTTRY+3,BSP3+3	U	7	0950	D 985 960		89
699	6 57	BSP3	BSP	OUTAP	U	5	0957	U {U6 B		89
700	6 58		SKP	SYSTP	U	5	0962	U (U1 E		89
701	6 59		BCE	SUBCT, WTCT-1,1	U	8	0967	B 999 /31 1		89
	6 60		Α	+1,WTCT=2	U	7	0975	A #71 /32		89
703	6 61	WTTRY	WT	OUTAP,0	U	8	0982	M (U6 000 W		90
704	6 62		BER	BSP3	U	5	0990	B 957 L		90
705	6 63	WTXT	В	0	U	4	0995	B 000		90
706	6 64	SUBCT	S	WTCT	U	4	0999	S /32		90
707	6 65		MN	WTTRY+3,*+7	U	7	1003	D 985 +16		90
708	6 66		Н	0,160	U	7	1010	. 000 160		90
709	6 67		В	WTTRY	U	4	1017	B 982		90
710	6 68	*								
711	6 69	* CLEA	R OUT	PUT AREA						
712	6 70	*								
713	6 71	CLEAR	SBR	CLRXT+3	U	4		H ‡5 5		91
714	6 72		MCW	1991,CLR+3	U	7	1025	M /35 #35		91
715	6 73	CLR	CS	3999	U	4	1032	/ 199		91
716	6 74		SBR	CLR+3	U	4	1036	H ‡35		91
717	6 75		C	CLR+3,+INPUT-1	U	7	1040	C #35 /38		91

SEQ PG LIN LA	BEL OP OPERANDS	:	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
718 6 76 719 6 77 CL 720 6 78	BU CLR RXT B O LTORG *		U	5 4	1047 1052	B ‡32 / B 000 1056		91 91
556	DCW 1999999 +1	EADR •	U	15 1	1070 1071	1030	LIT LIT	92 92
566 BY	19999991		U	1	1072 1078		AREA LIT	92 92
606 EO	BSW =01 FSW =01 PCT =02		U U U	1 1 2	1079 1080 1082		AREA AREA AREA	92 92 92
622		DER SYSTEM COPIED ON TAPE UNIT 6.		43 1	1125 1126		LIT AREA	94 94
	* B *		U	1	1127 1128		LIT	94 94
676 RD			U	1	1129		AREA	94 95
702 WT	CT =02 *199* +1NPUT-1		U U	3	1132 1135 1138	U 9 9	AREA LIT ADCON	95 95 95
	DUP DCW * * EX 0		U	1	1139	В 000		95 96

SEQ I	PG LIN	LABEL	OP	OPERANDS		SFX	CT	LOCN	INSTRUCTION TYP	E CARD
723	6 81		JOB	1401 AUTOCOCER-PASS 1 UPDATE LIBRARY	-VERSION	3				= =
724	6 82	IMAGE	EQU	101		U		0101		
725	6 83	*								
726	6 84	* BEGI	N UPDA	TE						
727	6 85	*								
728	6 86		ORG	INPUT		U			1500	
729	6 87	BEGIN	RWD	SYSTP		U	5	1500	U (U1 R	99
730	6 88		CW	HEDSW, ENDSW		U	7	1505) +91 +98	99 99
731	6 89 6 90		MCW	+IMAGE+13,NOIS2+6 ENDUP,IMAGE+80		U	7 7	1512 1519	M +30 780 L /39 181	99
732 733	6 91		LCA RT	SYSTP, IMAGE		U	8	1526	M (U1 101 R	99
734	6 92		DCW	'N000000000000'		Ü	14	1547	H (UI IUI K	100
735	6 93		8	NOISE		Ŭ	4	1548	B 759	100
736	6 94		ĊS	IMAGE+79		Ū	4	1552	/ 180	100
737	6 95		В	RDTP		Ŭ	4	1556	B M17	100
738	6 96	REBEG	В	READ		U	4	1560	B L24	100
739	6 97		BW	SERCH, INSW		U	8	1564	V V84 +73 1	100
740	6 98		BW	SERCH, DELSW		U	8	1572	V V84 +79 1	101
741	6 99		В	REBEG		U	4	1580	B V60	101
742	7 00	*								
743	7 01		CH FOR	CORRECT SUBROUTINE						
744	7 02	#	_	2007				150/	0.1107	
745	7 03	SERCH	B	DOCTL		U	4	1584	B N94	101
746	7 04 7 05		C	11,19999991		U	7 5	1588 1595	C 011 +36 B K40 S	101 101
747 748	7 06		BE C	CLNUP 8,NAME=3		U	7	1600	C 008 +39	101
749	7 07		BE	FOUND		Ü	5	1607	B X30 S	102
750	7 08		BH	QUIT		Ü	ś	1612	8 P75 U	102
751	7 09		MCW	8,NAME		Ŭ	7	1617	M 008 +39	102
752	7 10		S	SEQNO		Ū	4	1624	S A67	102
753	7 11	LOOP1	BW	HEADR, HEDSW		U	8	1628	V W56 +91 1	102
754	7 12		8	RDTP		U	4	1636	B M17	102
755	7 13		BW	HEADR, HEDSW		U	8	1640	V W56 +91 1	103
756	7 14	MORE	В	WTAP2		U	4	1648	B M95	103
757	7 15		В	LOOP1		U	4	1652	B W28	103
758	7 16	#								
759	7 17		ER LOC	ATED ON TAPE						
760	7 18	*	D L	DACT ENDOL:			٥	1454	V MOO 400 1	102
761 762	7 19 7 20	HEADR	BW C	PAST, ENDSW		U	8	1656 1664	V W89 +98 1 C 108 +39	103 103
763	7 21		BE	IMAGE+7, NAME FOUND		U	5	1671	B X30 S	103
764	7 22		CW	HEDSW		Ü	4	1676) +91	104
765	7 23		BL	PAST		Ũ	5	1680	B W89 T	104
766	7 24		B	MORE		Ũ	4	1685	B W48	104
767	7 25	*	_			•	-		·· · · -	-
768	7 26	* SUBR	OUTINE	NOT ON TAPE						
769	7 27	*								
770	7 28	PAST	BSP	SYSTP		U	5	1689	U (U1 B	104
771	7 29		CS	IMAGE+79		U	4	1694	/ 180	104
772	7 30		CW	HEDSW		U	4	1698) +91	104

SEQ PG LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION TYPE	CARD
773 7 31		BW	UNKWN, DELSW	U	8	1702	V Q01 +79 1	104
774 7 32		C	22,1 1	Ū	7	1710	C 022 +41	105
775 7 33		BU	UNKWN	Ü	5	1717	B Q01 /	105
776 7 34	BACK	В	PTCTL	Ü	4	1722	в 037	105
777 7 35	o non	В	INSER	Ŭ	4	1726	B Y06	105
778 7 36	*	Ū	\$14 V tall	-	•	-,	~	
779 7 37		OUTINE	FOUND					
780 7 38	*							
781 7 39	FOUND	С	22,1 1	U	7	1730	C 022 +41	105
782 7 40		BU	PARTL	U	5	1737	B Y46 /	105
783 7 41	#							
784 7 42	* DELE	TE AND	/OR INSERT WHOLE SUBROUTINES					
785 7 43	*							
786 7 44	ALL	MCW	'DELET',218	U	7	1742	M +46 218	105
787 7 45		В	PTCTL	U	4	1749	B 037	106
788 7 46		S	SEQNO	U	4	1753	S A67	106
789 7 47	LOOP 2	В	PRINT	U	4	1757	8 072	106
790 7 48		В	RDTP	U	4	1761	B M17	106
791 7 49		BW	EXIT, HEDSW	U	8	1765	V X77 +91 1	106
792 7 50		В	LOOP2	U	4	1773	B X57	106
793 7 51	EXIT	BSP	SYSTP	U	5	1777	U (U1 B	106
794 7 52		CS	IMAGE+79	U	4	1782	/ 180	107
795 7 53		CW	HEDSW	U	4	1786) +91	107
796 7 54		BW	REBEG, DELSW	U	8	1790	V V60 +79 1	107
797 7 55	#							
798 7 56	* INSE	RTION	OF WHOLE SUBROUTINE					
799 7 57	*							
800 7 58		В	DOCTL	U	4	1798	B N94	107
801 7 59		В	PTCTL	U	4	1802	B 037	107
802 7 60	INSER	Ş	SEQNO	U	4	1806	S A67	107
803 7 61	LOGP3	В	READ	U	4	1810	B L24	107
804 7 62		BW	SERCH, INSW	U	8	1814	V V84 +73 1	108
805 7 63		BW	SERCH, DELSW	U	8	1822	V V84 +79 1	108
806 7 64		В	DOOUT	U	4	1830	B L07	108
807 7 65		В	PRINT	U	4	1834	B 072	108
808 7 66		В	WTAP2	U	4	1838 1842	B M95 B Y10	108 108
809 7 67		В	L00P3	U	4	1042	p 110	100
810 7 68	* 5515	TE AND	A COD TAICEDT DADTC					
811 7 69		IE AND	O/OR INSERT PARTS					
812 7 70	# DADTI	c	AU 3 * 3	U	4	1846	S 101	108
813 7 71 814 7 72	PARTL	S BWZ	XR3+2 SOME,21,2	Ü	A B	1850	V Y81 021 2	109
		C	24, ¹ ¹	Ü	7	1858	C 024 +41	109
815 7 73 816 7 74		BE	ALL	Ü	5	1865	B X42 S	109
817 7 75		A	+2, XR3	U	7	1870	A +47 099	109
818 7 76		SW	23	Ü	4	1877	, 023	109
819 7 77	*	Jn		~	•		g vermon ver	~~ /
820 7 78		I FOR V	ALUES OF OPERANDS					
821 7 79	* 30Mi		THEOLOGIC OF ENTRIES					
822 7 80	SOME	SW	OPSW=1	U	4	1881	, +48	109

SEQ PG LI	N LABEL	. OP	OPERANDS	S	FX	СТ	LOCN	INSTRUCTION TYPE	CARD
823 7 81	TESTI	BCE	TWOOP,21+X3,,		U	8	1885	B Z16 OB1 ,	110
824 7 82		C	22+X3, 1 1		Ŭ	7	1893	C 0B2 +41	110
825 7 83		BE	TWOOP		Ŭ	5	1900	B Z16 S	110
826 7 84		A	+1, XR3		Ū	7	1905	A +49 099	110
827 7 85		В	TEST1		Ŭ	4	1912	B Y85	110
828 7 86			20+X3, WK1=4		Ŭ	7	1916	+ 080 +53	110
829 7 87		Ā	*0*, WK1		Ü	7	1923	A +54 +53	111
830 7 88		BCE	NXTOP,21+X3,,		Ŭ	8	1930	B Z42 OB1 ,	111
831 7 89		В	OUT		Ü	4	1938	B -08	111
832 7 90			22+X3		Ü	4	1942	, 082	111
833 7 91		SBR	XR2		U	4	1946	H 094	111
834 7 92		A	+1, XR3		U	7	1950	A +49 099	111
835 7 93		Ĉ	22+X3, * *		U	7	1957	C 0B2 +41	112
836 7 94		BU	ADD		Ü	5	1964	B Z50 /	112
837 7 95		ZA	20+X3, WK2=4		U	7	1969	+ 080 +58	112
838 7 96		A	*0*, WK2		U	7	1976	A +54 +58	112
839 7 97						7	1983	C +53 +58	112
840 7 98		C	WK1, WK2		U U	5	1990	B Q59 T	112
		BL	BADST		U	5	1995	B K20 S	113
		BE	ONOP				2000) +48	
842 8 00			OPSW		U	4	2004) 0-1	113
843 8 01	CLRWN		1+X2		U	4			113
844 8 02		CW	23		U	4	2008) 023	113
845 8 03		BW	*+8, OPSW		U	8	2012	V -27 +48 1	113
846 8 04		MCW	'DELET',218		U	7	2020	M +63 218	113
847 8 05		В	PTCTL		U	4	2027	B 037	113
848 8 06			N PIOCE CEATENERS						
849 8 07		AKCH FUI	R FIRST STATEMENT						
850 8 08		_	.w1 c5000			-	2021	C . CO A/7	
851 8 09		C	WK1, SEQNO		U	7	2031	C +53 A67	114
852 8 10		BE	GOTIT		U	5	2038	B -70 S	114
853 8 11		A	+1,SEQNO		U	7	2043	A +49 A67	114
854 8 12		8	WTAP2		U	4	2050	B M95	114
855 8 13		В	RDTP		U	4	2054	B M17	114
856 8 14		BW	NTFND, HEDSW		U	8	2058	V Q84 +91 1	114
857 8 15		₿	COMP		U	4	2066	8 -31	114
858 8 16			TOURN'T FOUND						
859 8 17		(51 51A	TEMENT FOUND						
860 8 18			ASUCE COOK			_	2070		115
861 8 19		B M	QINSR, OPSW		U	8	2070	V J46 +48 1	115
862 8 20									
863 8 21		ARCH FOI	R SECOND STATEMENT						
864 8 22		_							
865 8 23			PRINT		U	4	2078	B 072	115
866 8 24		В	RDTP		U	4	2082	B M17	115
867 8 25		C	WK2, SEQNO		U	7	2086	C +58 A67	115
868 8 26		BH	BSPC		U	5	2093	B J10 U	115
869 8 27		BW	NTFND, HEDSW		U	8	2098	V Q84 +91 1	115
870 8 28		В	COMP2		U	4	2106	B -78	116
871 8 29									
872 8 30	* SEC	JUND ST	ATEMENT FOUND						

SEQ PG LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION TYPE C	CARD
873 8 31	*	0.00	CVCTD	11	e	2110	U 411 B	114
874 8 32	BSPC	BSP	SYSTP	U	5	2110	U (U1 B	116
875 8 33		CS	IMAGE+79	U	4	2115	/ 180	116
876 8 34	THOM	S	+1,SEQNO	U	7	2119	S +49 A67	116
877 8 35	THRU	BW	LOOP3, DELSW	U	8 4	2126 2134	V Y10 +79 1	116
878 8 36		В	DOCTL PTCTL	U		2134	B N94 B 037	116
879 8 37		В		U	4		B J77	116
880 8 38 881 8 39		В	INSR+4	U	4	2142	B 311	117
881 8 39 882 8 40	# # TEC1	TNICE	RT OR DELETE					
883 8 41	* 1521	THOE	KI UK DELETE					
884 8 42	QINSR	BW	INSR, INSW	U	8	2146	V J73 +73 1	117
885 8 43	ATMOV	В	PRINT	U	4	2154	8 072	117
886 8 44		S	+1,SEQNO	Ü	7	2158	S +49 A67	117
887 8 45		C S	IMAGE+79	U	4	2165	/ 180	117
888 8 46		В	THRU	Ü	4	2169	B J26	117
889 8 47	#	U	THE	U	7	210)	D J20	TTI
890 8 48		DT CT	ATEMENTS					
891 8 49	* 11175	.1(1 31)	ATERICAL S					
892 8 50	INSR	В	WTAP2	U	4	2173	B M95	117
893 8 51	111311	В	READ	ŭ	4	2177	B L24	118
894 8 52		BW	SERCH, INSW	Ü	8	2181	V V84 +73 1	118
895 8 53		BW	SERCH, DELSW	Ü	8	2189	V V84 +79 1	118
896 8 54		В	DOOUT	Ŭ	4	2197	B L07	118
897 8 55		CW	SEQSW=1	Ŭ	4	2201) +64	118
898 8 56		В.	PRINT	Ŭ	4	2205	B 072	118
899 8 57		S	+1,SEQNO	Ŭ	7	2209	S +49 A67	118
900 8 58		В	INSR	Ŭ	4	2216	B J73	119
901 8 59	ONOP	BW	IS2OP, INSW	ŭ	8	2220		119
902 8 60	0.,0,	SW	OPSW	Ū	4	2228		119
903 8 61		В	CLRWM	Ŭ	4	2232		119
904 8 62	*	Ū			·			
905 8 63		ICATE	LIBRARY					
906 8 64	*							
907 8 65	REPET	В	WTAP2	U	4	2236	B M95	119
908 8 66	CLNUP	В	RDTP	Ü	4	2240		119
909 8 67		В	WTAP2	Ū	4	2244		119
910 8 68		BW	FINAL, ENDSW	U	8	2248		120
911 8 69		В	CLNUP	U	4	2256		120
912 8 70	#							
913 8 71	* END	OF UP	DATE - GO TO COPY ROUTINE					
914 8 72	*							
915 8 73	FINAL	WTM	OUTAP	U	5	2260	U (U6 M	120
916 8 74		MCW	+INPUT+13,NCIS2+6	U	7	2265		120
917 8 75		CW	LIBSW, EOFSW	U	7	2272)	120
918 8 76		CW	UPDS₩	U	4	2279		120
919 8 77		CS	332	U	4	2283	/ 332	120
920 8 78		CS		U	1	2287	/	121
921 8 79		CC	1	U	2	2288	F 1	121
922 8 80	BYP1	RT	SYSTP, IMAGE	Ü	8	2290	M (U1 101 R	121

					0.53			THETOMOTTON TUDE	C+00
SEQ F	PG LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION TYPE	CARD
923	8 81		BEF	REOUT	U	5	2298	B 593 K	121
924	8 82		В	BYP1	U	4	2303	В К90	121
925	8 83	*							
926	8 84	* SET	UP INS	SERT CARD					
927	8 85	*					0007		101
928	8 86	DOOUT	SBR	OUTXT+3	U	4	2307	H L23	121
929	8 87		MCW	80, IMAGE+79	U	7	2311	M 080 180	121
930	8 88		MCW		U	1	2318 2319	M	122
931	8 89	OUTST	MCW	^	U	1 4	2320	M B 000	122 122
932	8 90	OUTXT	В	0	U	~	2320	В 000	122
933	8 91	* 0540	CARD	CHODOUTTME					
934 935	8 92 8 93	* KEAU	CARD	SUBROUTINE					
936	8 94	READ	SBR	CDXT+3	U	4	2324	H M08	122
937	8 95	KEAD	BW	RDCD,LSTSW	Ü	8	2328	V L40 +85 1	122
938	8 96		В	CLNUP	Ü	4	2336	B K40	122
939	8 97	RDCD	R	GE1107	Ū	i	2340	1	122
940	8 98	NOCO	ĊW	INSW, DELSW	Ũ	7	2341) +73 +79	123
941	8 99		C C	20, * INSER*	Ū	7	2348	C 020 +72	123
942	9 00		BU	CKDEL	Ŭ	5	2355	B L68 /	123
943	9 01		SW	INSW=1	Ū	4	2360	, +73	123
944	9 02		В	CDXT-5	U	4	2364	B M00	123
945	9 03	CKDEL	C	20, DELET	U	7	2368	C 020 +78	123
946	9 04		ВU	CKREP	U	5	2375	B L88 /	123
947	9 05		SW	DELSW=1	U	4	2380	, +79	124
948	9 06		В	CDXT-5	U	4	2384	B M00	124
949	9 07	CKREP	C	20, REPET*	U	7	2388	C 020 +84	124
950	9 08		ΒE	REPET	U	5	2395	B K36 \$	124
951	9 09		BLC	LSTCD	U	5	2400	B M09 A	124
952	9 10	CDXT	В	0	U	4	2405	в 000	124
953	9 11	LSTCD	CW	LSTSW=1	U	4	2409) +85	124
954	9 12		В	CDXT	U	4	2413	8 M05	125
95 5	9 13	*							
956	9 14	* READ	TAPE	SUBROUTINE					
957	9 15	#		A T. V.T A	• 1	,	2/17	11 MO	125
958	9 16	RDTP	SBR	RTXT+3	U	4	2417	H M94	125
959	9 17		RT	SYSTP, I MAGE	U	8	2421 2429	M (U1 101 R	125 125
960	9 18		SW	IMAGE+80	U	4 10	2442	, 181	125
961	9 19		DCW	'N00000000'	U	4	2443	В 759	125
962 963	9 20		B BER	NOISE RDERR	Ü	5	2447	B 798 L	125
964	9 21 9 22		CW	HEDSW, ENDSW	Ü	7	2452) +91 +98	126
965	9 23		C	IMAGE+19, "HEADR"	U	7	2459	C 120 +90	126
966	9 24		BU	RTXT	Ü	5	2466	B M91 /	126
967	9 25		SW	HEDSW=1	Ŭ	4	2471	, +91	126
968	9 26		C	IMAGE+10, *999999*	Ŭ	7	2475	C 111 +97	126
969	9 27		BU	RTXT	Ü	5	2482	B M91 /	126
970	9 28		SW	ENDSW=1	Ū	4	2487	, +98	126
971	9 29	RTXT	В	0	U	4	2491	B 000	127
972	9 30	*							

SEQ	PG LIN	LABEL	OP	OPERANDS	S	FX C	T LO	CN	INSTRUCTION TYPE	CARD
973	9 31	# WRT1	TE TADE	SUBROUTINE						
974	9 32	* 407.1	L INTL	200K001 LHE						
975	9 33	WTAP2	SBR	WT2XT+3		U	4 24	95	H N31	127
976	9 34		C	IMAGE+79, BLANK			7 24		C 180 +27	127
977	9 35	•	BE	WT2XT			5 25		B N28 S	127
978	9 36		WT	OUTAP, IMAGE			8 25		M (U6 101 W	127
979	9 37		BER	WTERR			5 25		B 928 L	127
980	9 38		CS	IMAGE+79			4 25		/ 180	127
981	9 39	WT2XT	В	0		Ü	4 25		В 000	128
982	9 40	*	U			•	,			
983	9 41		NT HEAD	ING						
984	9 42	* 11/1/	11 11270							
985	9 43	HEAD	SBR	HDXT+3		U	4 25	32	H N93	128
986	9 44	IILAD	CS	332			4 25		/ 332	128
987	9 45		C S	332		Ŭ	1 25		, , , , ,	128
988	9 46		MCW	'1401 AUTOCODER - LIBRARY CHANGES', 251		Ŭ	7 25		M A30 251	128
989	9 47		MCW	*PAGE*, 275		Ŭ	7 25		M A34 275	128
990	9 48		A	+1,PGNO=3			7 25		A +49 A37	128
991	9 49		MCS	PGNO, 279		Ū	7 25		Z A37 279	129
992	9 50		W	10101217			1 25		2	129
993	9 51		ĊС	К			2 25		FK	129
994	9 52		CS	279			4 25		/ 279	129
995	9 53		MCW	SEQ LABEL OP OPERANDS , 227		Ü	7 25		M A63 227	129
996	9 54		W	ord ruce of oremine year		Ū	1 25		2	129
997	9 55		ĈС	K			2 25		FK	129
998	9 56		CS	228			4 25		/ 228	130
999	9 57	HDXT	В	0			4 25		В 000	130
1000	9 58	*	,,						2	
1001	9 59		HP CON	TROL CARD FOR PRINTING						
1002	9 60	#	0. 00							
1003	9 61	DOCTL	SBR	CTLXT+3		U	4 25	94	н 036	130
1004	9 62	000.2	CC	K			2 25		FK	130
1005	9 63		CS	332			4 26		/ 332	130
1006	9 64		CS				1 26		1	130
1007	9 65		MCW	72,271			7 26		M 072 271	130
1008	9 66		MCW	22,221		Ū	7 26		M 022 221	131
1009	9 67		MCW	20,218		U	7 26		M 020 218	131
1010	9 68		MCW	11,212		U	7 26		M 011 212	131
1011	9 69	CTLXT	В	0			4 26		в 000	131
1012	9 70	#								
1013	9 71	* PRI	NT CONT	ROL CARD						
1014	9 72	*								
1015	9 73	PTCTL	SBR	PTCXT+3		U	4 26	37	H 057	131
1016	9 74		W			U	1 26	41	2	131
1017	9 75		CC	j		U	2 26	42	F J	131
1018	9 76		CS	332		U	4 26	44	/ 332	132
1019	9 77		CS			U	1 26	48	/	132
1020	9 78		BCV	NEWPG		U	5 26		B 058 •	132
1021	9 79	PTCXT	В	0		U	4 26	54	В 000	132
1022	9 80	#								

SEQ PG LIN	LABEL	OP	OPERANDS	SFX	СТ	LOCN	INSTRUCTION TYPE	CARD
1023 9 81	* NEW	PAGE						
1024 9 82	#							
1025 9 83	NEWPG	SBR	NEWXT+3	Ü	4	2658	н 071	132
1026 9 84		CC	1	Ü	2	2662	F 1	132
1027 9 85		В	HEAD	Ů	4	2664	B N32	132
1028 9 86	NEWXT	В	0	Ŭ	4	2668	B 000	133
1029 9 87	*	U						
1030 9 88	* PRIN	T CTAT	EMENTS					
1031 9 89	* EVIII	1 JIMI	LINCATO					
1031 9 89	PRINT	SBR	PTXT+3	U	4	2672	H P74	133
1032 9 90	PRIMI	SW		Ü	7	2676	, 220 214	133
			220,214	Ü	4	2683	, 207	133
1034 9 92 1035 9 93		SW BCE	COMNT, IMAGE+5, *	U	0	2687	B P32 106 *	133
				U	7	2695	M 172 271	133
1036 9 94 1037 9 95		MCW	IMAGE+10, 219	_	7	2702	M 120 218	134
		MCW	IMAGE+19,218	U	7	2709	M 111 212	134
1038 9 96	TCTCA	MCW	IMAGE+10,212	_	8	2716	V P45 +64 1	134
1039 9 97	TSTSQ	BW	SEQNC, SEQSW	U	_	2724	• +64	
1040 9 98		SW	SEQSW	U	4	2728	B P53	134
1041 9 99	CONNIT	В	BUMP	U	7	2732		134
1042 10 00	COMNT	MCW	IMAGE+71,273	U	1		M 172 273	134
1043 10 01		MCW		U	1	2739	M	134
1044 10 02		MCW	TETEO	U	ı,	2740	M B 014	135
1045 10 03	CEONC	8	TSTSQ	U	4	2741	B P16	135
1046 10 04	SEQNC	MN	SEQNO, 204	U	,	2745	D A67 204	135
1047 10 05	011110	MCS	.1. CEONO	U	1 7	2752	Z A +40 A47	135
1048 10 06	BUMP	Α	+1,SEQNO=4	U	(2753	A +49 A67	135
1049 10 07		W	222	U	Ţ	2760	2	135
1050 10 08		CS	332	U	4	2761	/ 332	135
1051 10 09		CS	MEHOC	U	Ţ	2765	7 050 1	136
1052 10 10	DIVI	BCV	NEWPG	U	5	2766	B 058 1	136
1053 10 11	PTXT	8	0	U	4	2771	В 000	136
1054 10 12	* **		0000					
1055 10 13		ENCE E	KKUK					
1056 10 14	*	~ ~	222			2775		124
1057 10 15	QUIT	CS	332	U	4	2775	/ 332	136
1058 10 16		CS	ATMOST CARRO OUT OF CERUSINGS CTART OVERS 240	U	1 7	2779	/ H DOT 340	136
1059 10 17		MCW	'INPUT CARDS OUT OF SEQUENCE - START OVER', 240	U	1	2780	M B07 240	136
1060 10 18		W	•	U	1	2787	2	136
1061 10 19		CC	1	U	2	2788	F 1	137
1062 10 20	HALT2	H	0,133	U	•	2790	. 000 133	137
1063 10 21		В	HALT2	U	4	2797	B P90	137
1064 10 22	#		A.M. A.M. M. C. A.					
1065 10 23		UUTINE	UNKNOWN					
1066 10 24	*	2.2			_			
1067 10 25	UNKWN		ISUNK, 21, 2	U	8	2801	V Q21 021 2	137
1068 10 26		C	24,1	U		2809	C 024 +41	137
1069 10 27		BE	BACK	U	5	2816	B X22 S	137
1070 10 28	ISUNK	MCW	*SUBROUTINE UNKNOWN*,299	U	. !	2821	M B25 299	138
1071 10 29		W		U	T	2828	2	138
1072 10 30		CC	L	U	2	2829	r L	138

SEQ PG LIN	LABEL O)P	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1073 10 31	C	S	299	U	4	2831	/ 299		138
1074 10 32	LOOP4 B		READ	Ü	4	2835	B L24		138
1075 10 32		3 W	SERCH, INSW	Ŭ	8	2839	V V84 +73 1		138
1076 10 34		3 N	SERCH, DELSW	Ü	8	2847	V V84 +79 1		138
				U	4	2855	B Q35		139
1077 10 35	- 8)	LOOP4	U	7	2000	עכש פ		137
1078 10 36	* 040 CO	NITOOL	CARD						
1079 10 37	* BAD CO	JNIKUL	L CARD						
1080 10 38	*	4011	AOAD CTATEMENTA DOO	4.1	~	2050	W D20 200		120
1081 10 39		1CW	'BAD STATEMENT',299	Ü		2859	M B38 299		139
1082 10 40	W			U	1	2866	2		139
1083 10 41		CC		U	2	2867	FL		139
1084 10 42		S	299	U	4	2869	/ 299		139
1085 10 43	С	CW	1+X2,23	U	7	2873) 0-1 023		139
1086 10 44	В	3	LOOP4	U	4	2880	B Q35		139
1087 10 45	*								
1088 10 46	* STATEM	MENT (DOES NOT EXIST IN SUBROUTINE						
1089 10 47	# .								
1090 10 48	NTFND M	1CW	'STATEMENT DOES NOT EXIST', 299	U	7	2884	M B62 299		140
1091 10 49	W	d		U	1	2891	2		140
1092 10 50		CC	L	U	2	2892	FL		140
1093 10 51		S	299	U	4	2894	/ 299		140
1094 10 52		3 W	END99, ENDSW	Ŭ	8	2898	V R10 +98 1		140
1095 10 53	8		LOOP4	ŭ	4	2906	B Q35		140
1096 10 54	*	,	2001 4	•	•	2,00	0 433		2.0
1097 10 55			RARY REACHED BEFORE ROUTINE FOUND						
1098 10 56	* END GF	LIDI	TAKE REACTED BETORE ROOFFIRE TOURD						
and the second s		4CW	'SUBROUTINE UNKNOWN', 299	11	7	2910	M B80 299		140
1099 10 57			.200KOOTINE ONKHOMM. 1533	U	7	2917	2		141
1100 10 58	W		1		1	2918	FL		
1101 10 59		CC		U	2				141
1102 10 60		S	299	U	4	2920	/ 299		141
1103 10 61		4CW	'END OF LIBRARY REACHED', 222	U	(2924	M CO2 222		141
1104 10 62	W			U	1	2931	2		141
1105 10 63		SSP	SYSTP	U	5	2932	U (U1 B		141
1106 10 64		CS	IMAGE+79	U	4	2937	/ 180		141
1107 10 65	LOOP6 B	3	READ	U	4	2941	B L24		142
1108 10 66	8	-	LOOP6	U	4	2945	B R41		142
1109 10 67		CM	=50	U	50	2998			144
1110 10 68	BLANK D	C	=29	U	29	3027			145
1111 10 69	L	TORG	*	U			3028		
731	D	OCW	+IMAGE+13	U	3	3030	114	ADCON	145
746			19999991	U	6	3036		LIT	145
748	NAME		=03	U	3	3039		AREA	146
			t t	U	2	3041		LIT	146
786			'DELET'	U	5	3046		LIT	146
			+2	Ū	1	3047		LIT	146
822	OPSW		=01	Ū	ī	3048		AREA	146
~ L	w - w - 11		+1	Ŭ	1	3049		LIT	146
828	WK1		=04	Ŭ	4	3053		AREA	146
020	77 4 7 4		101	Ü	1	3054		LIT	147
837	WK2		=04	Ŭ	4	3058		AREA	147
1.00	1111 &			~	•			7 7 7 7 Sep 7 7	- • •

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
		846			*DELET*	U	5	3063		LIT	147
		897	SECSW		=01	U	1	3064		AREA	147
		916			+INPUT+13	U	3	3067	V13	ADCON	147
		941			*INSER*	U	5	3072		LIT	147
		943	INSW		=01	U	1	3073		AREA	147
		945			'DELET'	U	5	3078		LIT	148
		947	DELSW		=01	U	1	3079		AREA	148
		949			*REPET*	U	5	3084		LIT	148
		953	LSTSW		=01	U	1	3085		AREA	148
		965			*HEADR*	U	5	3090		LIT	148
		967	HEDSW		=01	U	1	3091		AREA	148
		968			19999991	U	6	3097		LIT	148
		970	ENDSW		=01	U	1	3098		AREA	149
		988			*1401 AUTOCODER - LIBRARY CHANGES*	U	32	3130		LIT	149
					PAGE!	U	4	3134		LIT	149
		990	PGNO		=03	U	3	3137		AREA	150
		995			SEQ LABEL OP OPERANDS	U	26	3163		LIT	150
		1048	SEQNO		=04	U	4	3167		AREA	150
		1059			INPUT CARDS OUT OF SEQUENCE - START OVER!	U	40	3207		LIT	152
		1070			"SUBROUTINE UNKNOWN"	U	18	3225		LIT	152
		1081			BAD STATEMENT	U	13	3238		LIT	152
		1090			'STATEMENT DOES NOT EXIST'	U	24	3262		LIT	153
		1099			'SUBROUTINE UNKNOWN'	U	18	3280		LIT	154
		1103			'END OF LIBRARY REACHED'	U	22	3302		LIT	155
1112	10	70	3998	DCW	1 1	U	1	3998			156
1113	10	71		ΕX	0	U			В 000		157

SEQ	PG	LIN	LABEL	OP	OPERANDS	Sf	X CT	LOCN	INSTRUCTION TYPE	CARD
1114	10	72		JOB	1401 AUTOCODER-PASS 1 OUTPUT LIBRARY -VERSIO	N 3				
1115				SFX	P	., ,				
1116			SYSTP	EQU	(U1	1	•	(U1		
1117			XR1	EQU	89		>	0089		
1118			*	E WO		•				
1119			* BEGI	N PROG	RAM					
1120			*	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
1121				ORG	2000	1)		2000	
1122				SW	ENDOT		9 4	2000	, +44	160
1123				LCA	ENDOT, 181		7		L +44 181	160
1124				CS		1		2011	1	160
1125				CS	80	ı		2012	/ 080	160
1126				SW	6,16	1		2016	, 006 016	160
1127				CS	332	ı		2023	/ 332	160
1128				CS		1		2027	/	160
1129				CC	1	ı	2	2028	F 1	161
1130				RWD	SYSTP		P 5	2030	U (U1 R	161
1131				RT	SYSTP, 101	1		2035	M (U1 101 R	161
1132				CS	180	ſ		2043	/ 180	161
1133				SW	106,116	1	7	2047	. 106 116	161
1134				SW	121	1	9 4	2054	, 121	161
1135				BSS	DOALL, E	1	5	2058	B L28 E	161
1136			*							
1137			* PRIN	T AND/	OR PUNCH SELECTED MACROS					
1138			*							
1139	10	97		CW	HDRSW	I	9 4	2063) R32	162
1140	10	98	READ	CC	1	1	2	2067	F 1	162
1141	10	99		В	PRTHD	1	9 4	2069	B N59	162
1142	11	00		R		i	2 1	2073	1	162
1143	11	01		MCW	*2*, OPCOD	ı	7	2074	M Q90 069	162
1144	11	02		C	20, PRINT	I	7	2081	C 020 Q95	162
1145	11	03		BE	SELMC	1	5	2088	B J19 S	162
1146	11	04		C	20, PUNCH		7	2093	C 020 R00	163
1147				BU	ERROR	1	5	2100	B N06 /	163
1148			*							
1149			* PUNC	H OPTI	ON					
1150			*							
1151				A	+4,OPCOD		7			163
1152				MN	+4,0PSAV=1	1	7	2112	D R01 R02	163
1153			*							
1154			* SEAR	CH FOR	MACRO					
1155			*	_		_	_			
1156			SELMC	C	8,NAME=3		7	2119		163
1157				BE	TSTLC		5		B K96 S	163
1158				MCW	20,218		7	2131	M 020 218	164
1159				MCW	11,212		7	2138	M 011 212	164
1160				BL	RDTP2		5	2145	B J85 T	164
1161				RWD	SYSTP		5	2150	U (U1 R	164
1162				LCA	ENDOT, 181		7	2155	L +44 181	164
1163	1.1	21		RT	SYSTP,101	1	8	2162	M (U1 101 R	164

SEQ PG LIN	LABEL	OP	OPERANDS	9	SFX	CT	LOCN	INSTR	UCTION	TYPE	CARD
1164 11 22 1165 11 23 1166 11 24 1167 11 25 1168 11 26 1169 11 27 1170 11 28 1171 11 29 1172 11 30 1173 11 31 1174 11 32	RDTP2	CS SW SW RT BER CBE CBU C	180 106,116 121 SYSTP,101 NOISE RDERR 111,'999999' UNKN 120,'HEADR' RDTP2 8,108		P P P P P P P P	4 7 4 8 4 5 7 5 7 5 7	2170 2174 2181 2185 2193 2197 2202 2209 2214 2221 2226	B P67 B Q06 C 111 B L05 C 120 B J85 C 008	116 101 R L R11 S R16 /		165 165 165 165 165 165 166 166
1175 11 33 1176 11 34	*	BU	RDTP2		P	5	2233	B J85	1		166
1177 11 35	* DESI	RED MA	CRO FOUND								
1178 11 36 1179 11 37 1180 11 38 1181 11 39 1182 11 40 1183 11 41 1184 11 42 1185 11 43 1186 11 44 1187 11 45 1188 11 46 1189 11 47 1190 11 48 1191 11 49 1192 11 50 1193 11 51 1194 11 52 1195 11 53	* PTAGN * * TEST * TSTLC	BLC	E0J08		P P P P P P P P P P P P P P P P P P P	7214424845755	2238 2245 2247 2248 2252 2256 2258 2262 2270 2274 2279 2286 2291	B P67 B Q06 C 120 B K58 U (U1	101 R L R21 / B		166 167 167 167 167 167 167 168 168 168
1196 11 54 1197 11 55	#	В	READ		P	4	2301	B -67			168
1198 11 56 1199 11 57	*		ON TAPE								
1200 11 58 1201 11 59 1202 11 60 1203 11 61 1204 11 62 1205 11 63	UNKN	MCW W CS MCW B	'UNKNOWN',299 299 '999',NAME TSTLC		P P P P	7 1 4 7 4	2305 2312 2313 2317 2324	M R28 2 / 299 M R31 B K96	R05		168 169 169 169 169
1206 11 64 1207 11 65 1208 11 66	* PRIN * DOALL		OR PUNCH ALL OR PRINT HEADERS ONLY SETUP, D		P	5	2328	B L60	D		169
1209 11 67 1210 11 68 1211 11 69 1212 11 70 1213 11 71	* * PUNC	CW BSS B	HDRSW=1 #+5,G SETUP		P P P	4 5 4	2333 2337 2342) R32 B L46 B L60	G		169 169 170

SEQ PG LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION TYPE	CARD
1214 11 72	#							
1215 11 73		Α	+4,OPCOD	Р	7	2346	A R01 069	170
1216 11 74		MN	+4, OPSAV	P	7	2353	D R01 R02	170
1217 11 75	SETUP	В	HEAD1	P	4	2360	B P19	170
1218 11 76		CW	HDSW1=1	P	4	2364) R33	170
1219 11 77		В	PRTHD	P	4	2368	B N59	170
1220 11 78	RDTP	RT	SYSTP, 101	P	8	2372	M (U1 101 R	170
1221 11 79		В	NOISE	Р	4	2380	B P67	171
1222 11 80		BER	RDERR	P	5	2384	B Q06 L	171
1223 11 81		C	111, 19999991	Р	7	2389	C 111 R39	171
1224 11 82		BE	EOJOB	₽	5	2396	B M54 S	171
1225 11 83		C	120, 'HEADR'	P	7	2401	C 120 R44	171
1226 11 84		BU	DOPNT	P	5	2408	8 M35 /	171
1227 11 85		В	INSER	P	4	2413	B N17	171
1228 11 86		ČC	K	P	2	2417	FK	172
1229 11 87		SBR	PRTXT+3, *+6	Р	7	2419	H 083 M31	172
1230 11 88		BCV	NEWPG	P	5	2426	B 097 •	172
1231 11 89		S.	SEQNO=4	P	4	2431	S R48	172
1232 11 90	DOPNT	В	PRINT	P	4	2435	B N81	172
1233 11 91	55171	SW	106,116	P	7	2439	. 106 116	172
1234 11 92		SW	121	P	4	2446	, 121	172
1235 11 93		B	RDTP	P	4	2450	B L72	173
1236 11 94	*	U		•	•			2.5
1237 11 95	* END	OF JOE						
1238 11 96	*	0. 000						
1239 11 97	EOJOB	CS	332	Р	4	2454	/ 332	173
1240 11 98	2000	CS		P	i	2458	/ 552	173
1241 11 99		CC	K	P	2	2459	FK	173
1242 12 00		MCW	'END OF LIBRARY',214	Р	7	2461	M R62 214	173
1243 12 01		W	LID OF ETDIANT 1221	P	i	2468	2	173
1244 12 02		сс	1	P	2	2469	F 1	173
1245 12 03		CS	180	P	4	2471	/ 180	174
1246 12 04		BCE	CLRPH, OPSAV, 4	P	8	2475	B M99 R02 4	174
1247 12 05	RWD	RWD	SYSTP	P	5	2483	U (U1 R	174
1248 12 06	HALT	Н	0,155	P	7	2488	. 000 155	174
1249 12 07	HALI	 В	HALT	Р	4	2495	B M88	174
1250 12 08	CLRPH	P	HALI	P	1	2499	4	174
1250 12 08	CERPII	ŚS	8	P	2	2500	K 8	174
1252 12 10		33 B	RWD	P	4	2502	B M83	175
1252 12 10	*	U	740	•	•	2702	8 1,65	112
1254 12 12		PPECT	INPUT CARD					
1255 12 13	* INCO	INNECT	INFO! CARD					
1256 12 14	ERROR	ti	0,144	Р	7	2506	. 000 144	175
1257 12 15	ENNUN	H B	TSTLC	P	4	2513	B K96	175
1258 12 16	INSER	SBR	INSXT+3	P	4	2517	H N58	175
1258 12 18	THOCK	MCW	1 1,105	P	7	2521	M R67 105	175
		MCW	*INSER*,120	P	7	2528	M R72 120	175
1260 12 18 1261 12 19		BCE	*+5,0PSAV,4	P	8	2535	B N47 R02 4	176
				-	4	2543	B N48	176
1262 12 20		B P	*+2	P P	1	2547		176
1263 12 21		r		•	٨.	C 771	7	TIO

SEQ PG LIN	LABEL	OP	OPERANDS		SFX	CT	LOCN	INSTRUCTION TYPE	CARD
1264 12 22		MCW	"HEADR",120		P	7	2548	M R77 120	176
1265 12 23	INSXT	В	0		P	4	2555	В 000	176
1266 12 24	*		_					•	
1267 12 25	* PRIN	NT HEAD	ING						
1268 12 26	*								
1269 12 27	PRTHD	SBR	HDXT+3		P	4	2559	H N80	176
1270 12 28		MCW	'SEQ LABEL OP	OPERANDS , 227	P	7	2563	M +03 227	176
1271 12 29		W			P	1	2570	2	177
1272 12 30		CC	K		P	2	2571	FK	177
1273 12 31		CS	228		P	4	2573	/ 228	177
1274 12 32	HDXT	В	0		P	4	2577	B 000	177
1275 12 33	*								
1276 12 34	* PRIN	NT STAT	EMENT						
1277 12 35	*								
1278 12 36	PRINT	SBR	PRTXT+3		Р	4	2581	H 083	177
1279 12 37		C	120, "HEADR"		P	7	2585	C 120 +08	177
1280 12 38		BE	DOHDR		P	5	2592	B 005 \$	177
1281 12 39		BW	CLR, HDRSW		Р	8	2597	V 070 R32 1	178
1282 12 40	DOHDR	CS	332		P	4	2605	/ 332	178
1283 12 41		CS			P	1	2609	/	178
1284 12 42		BCE	COMNT, 106, *		P	8	2610	B 084 106 *	178
1285 12 43		MCW	172,271		P	7	2618	M 172 271	178
1286 12 44		MCW	120,218		P	7	2625	M 120 218	178
1287 12 45		MCW	111,212		P	7	2632	M 111 212	179
1288 12 46	DOSEQ	MN	SEQNO, 204		P	7	2639	D R48 204	179
1289 12 47		MCS	650kp 104		P	1	2646	2	179
1290 12 48		MN	SEQNO,104		P	7	2647	D R48 104	179
1291 12 49		MCW	. 1 . 6 . 6 . 6 . 6 . 6 . 6 . 6 . 6 . 6		P	1	2654	M .00 040	179
1292 12 50		A	+1,SEQNO		P	7 7	2655	A +09 R48	179
1293 12 51	00000	MCW	' ',105		P P		2662 2669	M +10 105 2	179 180
1294 12 52	OPCOD	W	222			14	2670	/ 332	180
1295 12 53	CLR	CS	332		P P	1	2674	1 332	180
1296 12 54		CS	NEHOC		P	5	2675	B 097 '	180
1297 12 55	PRTXT	BCV	NEWPG O		P	4	2680	B 000	180
1298 12 56 1299 12 57	COMNT	B McW	172,273		P	7	2684	M 172 273	180
1300 12 58	COMMI	MCW	1124213		þ	í	2691	M .	180
1301 12 59		MCW			P	1	2692	M	181
1302 12 60		B	DOSEQ		P	4	2693	B 039	181
1302 12 60	*	U	DOSER		,	•	20,5	5 637	
1304 12 62		RT NEW	PAGE						
1305 12 63	* 3174		, AOL						
1306 12 64	NEWPG	CC	1		Р	2	2697	F 1	181
1307 12 65	HEM! U	BW	*+5,HDSW1		P	8	2699	V P11 R33 1	181
1308 12 66		В	HEAD1		P	4	2707	B P19	181
1309 12 67		В	PRTHD		P	4	2711	B N59	181
1310 12 68		В	PRTXT		P	4	2715	B 080	181
1311 12 69	*	_							
1312 12 70		ALAM TH	HEADING						
1313 12 71	*								

SEQ	PG	LIN	LABEL	OP.	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1314			HEAD1	SBR	HD2XT+3	P	4	2719	H P66		182
1315				CS	332	P	4	2723	/ 332		182
1316				CS		P	1	2727	/		182
1317				MCW	11401 AUTOCODER - LIBRARY', 243	Р	7	2728	M +34 243		182
1318				MCW	'PAGE',275	P	7	2735	M +38 275		182
1319				A	+1,PGN0=3	P	7	2742	A +09 +41		182
1320				MCS	PGNO, 279	P	7	2749	Z +41 279		182
1321				W		P	1	2756	2		183
1322				CC		P	2	2757	FL		183
1323				CS	299	P	4	2759	/ 299		183
1324			HD2XT	В	0	P	4	2763	B 000		183
1325			*	500 N	TEE OFCODOS						
1326				FUR N	DISE RECORDS						
1327			*	C D D	NOCHT. 2		,	27/7	11 005		* 0.2
1328			NOISE	SBR	NOSXT+3	P	4	2767	H Q05		183
1329				SBR	XR1	P	4	2771	H 089		183
1330				MZ	+9,XR1	Р	7	2775	Y +42 089		183
1331				BCE	4000-12+X1,113,	Р	8	2782	B IY8 113	MACDO	184
1332	12	90		CHAIN	12		,	2700	n	MACRO	107
1333				BCE		P	1	2790	8	GEN	184
1334				BCE		P	1	2791	8	GEN	184
1335				BCE		P	1	2792 2793	В	GEN	184
1336				BCE BCE		P P	1	2794	8	GEN	184
1337 1338				BCE		P	1	2795	8	GEN GEN	184 184
1339				BCE		P	1	2796	B B	GEN	185
1340				BCE		P	1	2797	8	GEN	185
1341				BCE		P	1	2798	В	GEN	185
1342				BCE		P	i	2799	В	GEN	185
1343				BCE		P	1	2800	В	GEN	185
1344				BCE		P	ì	2801	В	GEN	185
1345	12	01	NOSXT	B	0	P	4	2802	B 000	OLIV	185
1346			*	U		•	7	2002	D 000		100
1347				REDUN	DANCY ROUTINE						
1348			*	11.00111	AND I NOVI INC						
1349			RDERR	SBR	RDXT+3	Р	4	2806	H Q38		186
1350			BSP	BSP	SYSTP	P	5	2810	U (U1 B		186
1351			55 .	MCW	+9,RDCT=1	P	7	2815	M +42 +43		186
1352			RDTRY	RT	SYSTP,101	P	8	2822	M (U1 101 R		186
1353				BER	*+5	P	5	2830	B Q39 L		186
1354			RDXT	В	0	P	4	2835	B 000		186
1355				BSP	SYSTP	P	5	2839	U (U1 B		186
1356				S	+1,RDCT	P	7	2844	S +09 +43		187
1357				BWZ	RDTRY, RDCT, B	P	8	2851	V Q22 +43 B		187
1358				Н	0,191	P	7	2859	. 000 191		187
1359				RT	SYSTP, 101	P	8	2866	M (U1 101 R		187
1360				BSS	BSP, E	Р	5	2874	B Q10 E		187
1361				Н	0,111	P	7	2879	. 000 111		188
1362				В	RDXT	P	4	2886	B Q35		188
1363				LTORG	*	P			28 90		

SEQ PG LIN	LABEL	OP	OPERANDS	SF	СТ	LOCN	INSTRUCTION	TYPE	CARD
		DCW	•2•	Р	1	2890		LIT	188
1144			*PRINT*	Р	5	2895		LIT	188
1146			'PUNCH'	Р	5	2900		LIT	188
			+4	P	1	2901		LIT	188
1152	OPSAV		=01	P	1	2902		AREA	188
1156	NAME		=03	P	3	2905		AREA	189
1170			1999991	P	6	2911		LIT	189
1172			"HEADR"	P	5	2916		LIT	189
1189			"HEADR"	Р	5	2921		LIT	189
1200			'UNKNOWN'	р	7	2928		LIT	189
			19991	P	3	2931		LIT	189
1209	HDRSW		=01	P	1	2932		AREA	189
1218	HDSW1		=01	P	1	2933		AREA	190
1223			*99999 *	Р	6	2939		LIT	190
1225			"HEADR"	Р	5	2944		LIT	190
1231	SEQNO		=04	P	4	2948		AREA	190
1242			*END OF LIBRARY*	Р	14	2962		LIT	190
1259			1	Р	5	2967		LIT	190
1260			'INSER'	P	5	2972		LIT	191
1264			"HEADR"	Р	5	2977	•	LIT	191
1270			SEQ LABEL OP OPERANDS	P	26	3003		LIT	191
1279			"HEADR"	Р	5	3008		LIT	192
			+1	P	1	3009		LIT	192
			1 1	P	1	3010		LIT	192
1317			'1401 AUTOCODER - LIBRARY'	P	24	3034		LIT	192
			PAGE!	P	4	3038		LIT	192
1319	PGNO		=03	Р	3	3041		AREA	192
			+9	P	1	3042		LIT	192
1351	RDCT		=01	P	1	3043		AREA	193
1364 13 10	ENDOT	DCW	1 1	P	1	3044			193
1365 13 11		ΕX	0	Р			B 000		194
1366 13 12		END	0	P			/ 000 080		197

1 CLEAR STORAGE 2 L068112,102106,113/101099/I99,027A070028)027B0010270B0261,001/001113I0 2 3 BOOTSTRAP ,008015,022029,036040,047054,061068,072/061039 ,0010011040

PAGE

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3722L

1401 AUTOCODER-PASS 2-PROCESS IOCS-MAIN 2 -VERSION 3

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
101	1	01	001	JOB	1401 AUTOCODER-PASS 2-PROCESS IOCS-MAIN 2 -VERSION	3					
102		02		CTL	630 1						
103		03		SFX	I						
104		04	OTHER	EQU	START	I		0101			
105		05	MINUS2		2	Ī		0002			
106		06	MINUS3		3	Ī		0003			
107		07	DIOCSB		LABDIO-4	Ī		0576			
108		08		ORG	1	Ī			0001		
109		09	MAINX	DA	1X86	I		0001	0086		4
110		10	LMAINX		*	I		0086			
111		11			INDEX1, INDEX2, INDEX3					MACRO	
112		01	INDEX1		089	1		0089		GEN	
113		02	089	DCW	000	I	3	0089		GEN	4
114		04	091	DC	00	I	2	0091		GEN	4
115		05	INDEX2		094	I		0094		GEN	
116		06	094	DCW	000	I	3	0094		GEN	4
117		08	096	DC	00	Ī	2	0096		GEN	4
118		09	INDEX3		099	Ī		0099		GEN	
119		10	099	DCW	000	I	3	0099		GEN	4
120		12	100	DC	0	I	1	0100		GEN	4
121		12	*								
122		13	*		START OF MAIN LINE						
123		14	#								
124		15		ORG	101	I			0101		
125		16	START	RWD	4	I	5	0101	U (U4 R		4
126		17		RWD	5	I	5	0106	U (U5 R		4
127		18		RWD	6	I	5	0111	U (U6 R		4
128		19		BSS	OVLAY2, B	I	5	0116	B P32 B		5
129		20		В	REDREC	I	4	0121	B 774		5 5 5
130		21		C	MAINX+17, 'JOB'	I	7	0125	C 018 W05		5
131		22		BU	CMCTL	I	5	0132	B 157 /		5
132		23		CC	1	I	2	0137	F 1		5
133		24		MCW	80,280	I	7	0139	M 080 280		5
134		25		W		I	1	0146	2		5
135		26		CC	1	I	2	0147	F 1		6
136		27		В	WRTREC	1	4	0149	B 721		6
137		28		В	REDREC	I	4	0153	B 774		6
138		29	CMCTL	С	MAINX+17, 'CTL'	I	7	0157	C 018 W08		6
139		30		BU	FIND	I	5	0164	B 642 /		6
140		31		BCE	ROBIN, MAINX+23,1	I	8	0169	B 623 024 1		6
141		32		MN	MAINX+21, *+8	I	7	0177	D 022 191		6 7
142		33		BCE	ROBIN, *456*,	1	8	0184	B 623 W11		7
143		34		CHAIN						MACRO	
144				BCE		I	1	0192	В	GEN	7
145				BCE		I	1	0193	В	GEN	7
146		350		В	BLUE	I	4	0194	B 627		7
147		36		ORG	201	1			0201		

SEQ PG LIN	LABEL	OP	OPERANDS		SFX CT	LOCN	INSTRUCTION TYPE CARD
148 1 37		DA	1X132		ī	0201	0332 7
149 1 38		UA	6,6		Ī	0206	FIELD 7
150 1 39	DTFTAB	FOII	LABDTF-1		Î	0349	1 & No to to!
151 1 40	DITTAG	ORG	333		ī	40	0333
152 1 41	EITHER		NEXREC		I 4	0333	B 681 8
153 1 42	#	•			•		-
154 1 43	*		CONTROL CARD INFORMATION				
155 1 44	*		• • • • • • • • • • • • • • • • • • • •				
156 1 45	SPECL	DCW	1+1		I 1	0337	8
157 1 46	SYMNM	DCW	=3.		I 3	0340	8
158 1 47	*						
159 1 48	*		DTF MAJOR TABLE				
160 1 49	*						
161 1 50		DCW	1,1		I 1	0341	8
162 1 51		DCW	• • COBOL YES		I 1	0342	8
163 1 52		DCW	• • EXITS YES		I 1	0343	8
164 1 53	FILENM	DCW	=6		I 6	0349	8 8 9
165 1 54	LABDTF		• • 1 INPUT	1 FILETYPE	I 1	0350	9
166 1 55		DCW	· · 2 OUTPUT	2	I 1	0351	9
167 1 56		DCW	TAPE	3	I 1	0352	9
168 1 57		DCW	4 READER	4	I 1	0353	9
169 1 58		DCW	9 PUNCH	5	I 1	0354	9
170 1 59		DCW	• • 6 PRINTER	6	I 1	0355	9
171 1 60		DCW	· · 7 LOAD	7 MODEPAR	I 1	0356	9
172 1 61		DCW	8 CHECKPOINT	8 FEATURES	I 1	0357	10
173 1 62		DCM	9 NUMBER	9 CHANDRIVE	I 1	0358	10
174 1 63		DCW	10 NUMBER	10 CARDPOC	I 1	0359	10
175 1 64		DCW	• • 11 NUMBER	11 ALTTAPE	I 1	0360	10
176 1 65		DCW	12 BLOCKED	12 RECFORM	I 1	0361	10
177 1 66		DCW	13 UNBLOCKED	13	I 1	0362	10
178 1 67		DCW	14 MIXED	14	I 1	0363	10
179 1 68		DCW	15 VARIABLE	15	1 1	0364	11
180 1 69		DCW	16-19 NUMBER	16 SIZEREC	1 4	0368	11
181 1 70		DCW	20 NUMBER	17 PADDING	1 1	0369	11 11
182 1 71		DCW	1 21-24 NUMBER	18 BLOCKSIZE	1 4	0373	
183 1 72		DCW	25-34 LABELS	19 IOAREAS	I 10 I 10	0383 0393	11 11
184 1 73		DCW	35 11	20	I 10	0403	12
185 1 74		DCW	13 31 CAGEC	21 WORKAREA 22 INDEXREG	I 10	0403	12
186 1 75		DCW	'	22 INDEXREG 23 EORADDR	I 10	0414	12
187 1 76 188 1 77		DCW DCW	1 66-75 LABEL	24 WLRADDR	I 10	0424	12
188 1 77 189 1 78		DCW	76 RECORD	25 TOTALS	I 10	0425	12
190 1 79		DCW	* * 77-80 HASH	26	I 4	0429	12
191 1 80		DCW	81 STANDARD	27 TYPELABEL	i	0430	12
192 1 81		DCW	82 NONSTANDARD	28	ÎÎ	0431	13
193 1 82		DCW	83 TM	29	î î	0432	13
194 1 83		DCW	* * 84 ALL	30 CHECKLABEL	i i	0433	13
195 1 84		DCW	85 IDENT	31	i i	0434	13
196 1 85		DCW	1 1		I 3	0437	13
197 1 86		DCW	1 1		Ī 5	0442	13
		···					the second of th

SEQ PG LIN	LABEL OP	OPERANDS					SFX (T L	LOCN	INSTRUCTION TYPE	CARD
198 1 87	DC	W *	•				1 1	10 0	0452		13
199 1 88	DC		104-108 N	UMBER	35	SERIALNUM	I		0457		14
200 1 89	DC		109-118		39	EX1ADDR	1		3467		14
201 1 90	DC		1 119-128		40	EX2ADDR			3477		14
202 1 91	DC		129-138		41	EX3ADDR			0487		14
203 1 92	DC		1 139-148		42	EX4ADDR			0497		15
204 1 93	DC		1 149-158		43	EX5ADDR			0507		15
205 1 94	DC		159-168		44	EX6ADDR			0517		15
206 1 95	DC		169-178		45	EX7ADDR			0527		16
207 1 96	DC		179-188		46	EX8ADDR			0537		16
208 1 97	DC		189-198		47	VARBUILD			0547		16
209 1 98	DC		199 UNL	DAD	37	REWIND	I		0548		16
210 1 99	DC		200 NORI		38		1		3549		16
211 2 00	DC			201		OVERFLOW	I		0550		16
212 2 01	DC			202			I		0551		16
213 2 02	DC		203-205	NUMBE	R	REELSEQP	I)554		17
214 2 03	DC		206			FORMCNTL	I)55 5		17
215 2 04	DC						1		0564		17
216 2 05	DC		216	ADDRE	SS	OVERFLOW	I)56 5		17
217 2 06	DC						I	1 (0566		17
218 2 07	ENDDTF DC						I	1 (0567		17
219 2 08	*										
220 2 09	*	DIOCS	MAJOR TABLE								
221 2 10	*										
222 2 11	DC	W *,*					I	1 0	0568		17
223 2 12	DIVIDE EQ						ı	0	0568		
224 2 13	DC		40	PAR	OUT	TAPEUSE	I	1 (0569		18
225 2 14	DC	W 1 1	39	PAR	INP	TAPEUSE	I	1 (0570		18
226 2 15	DC	W • •	38	PAR	YES	EXITS	I		0571		18
227 2 16	LABDIO DC	₩ =9			DIOCSORG		I		0580		18
228 2 17	DC	W 1 1	5				I		0581		18
229 2 18	DC	W 1 1	6		OVERLAP	FEATURES	I		0582		18
230 2 19	DC	W * *	7		TAPE	IODEVICES	I		0583		18
231 2 20	DC		8		READER		I		0584		19
232 2 21	DC	W * *	9		PUNCH		I		0585		19
233 2 22	DC		10		PRINTER		I		0586		19
234 2 23	DC		11		STANDARD	LABELDEF	I		0587		19
235 2 24	DC		12		NONSTANDA	RD	I		0588		19
236 2 25	DC		13		MIXED		I		0589		19
237 2 26	DC		14		CHECK		I		590		19
238 2 27	DC		15		IDENT		I		0591		20
239 2 28	DC		16		TM		I		0592		20
240 2 29	DC		17		YES	ALTDRIVE	I		0593		20
241 2 30	DC		18		1	EXITS	Ī		0594		20
242 2 31	DC		19		2		Ī		0595		20
243 2 32	DC		20		3		Ī		0596		20
244 2 33	DC		21		4		I		0597		20
245 2 34	DC		22		5		Ī)598		21
246 2 35	DC		23		6		ī		0599		21
247 2 36	DC	W 1 1	24		7		I	1 (0600		21

SEQ PG LIN	LABEL	OP	OPERANDS				SFX	CT	LOCN	INSTRUCTION TYPE	CARD
248 2 37		DCW	4 4	25	8		I	1	0601		21
249 2 38		DCW	1 1	RDLIN	LABELDEF		Ī	ī	0602		21
250 2 39		DCW	1 1	27	729	DRIVETYPE	ī	ĩ	0603		21
251 2 40		DCW	1 1	28	7330	DIVERTERING	ī	1	0604		21
252 2 41		DCW	1 1	29	NORWD	RWDOPTION	Ī	î	0605		22
253 2 42		DCW	1 1	30	UNLOAD	KHOO! ! TO!	Ī	î	0606		22
254 2 43		DCW	1 1)E,=	READERROR	ī	î	0607		22
255 2 44		DCW	1 1	32 SCA		KEADEKKOK	ī	ì	0608		22
256 2 45		DCW	1 1		CESS		ī	ì	0609		22
257 2 46		DCW	1 1	CLEAN	READERROR		Ī	ì	0610		22
258 2 47		DCW	1 1	35	YES	INPVAR	Ţ	1	0611		22
259 2 48		DCW	1 1	36	YES	INPFXNO	ī	i	0612		23
			1 1	37	RECORD	COUNTS	1	i	0613		23
260 2 49		DCW			RECURD	COUNTS	T T	ì	0614		23
261 2 50		DCW	* U	HASH			1 1	5	0619		
262 2 51		DCW	=5	,	THE CUROTHE		1				23
263 2 52		DCW	39–44		CHECKPOINT		1	1	0620		23
264 2 53		DCW	45	RELEASE		FEATURES	Ī	1	0621		23
265 2 54	ENDDIO	DCM	46	STORAGE			I	1	0622		23
266 2 55	#										
267 2 56	*						_				
268 2 57	ROBIN	S	SPECL				I	4	0623	\$ 337	24
269 5 575	BLUE	MCW	MAINX+25, NORDRL=1				I	7	0627	M 026 W12	24
270 2 58	THRU	В	WRTREC				I	4	0634	B 721	24
271 2 59		В	REDREC				I	4	0638	B 774	24
272 2 60	FIND	С	MAINX+19,KDIOCS				I	7	0642	C 020 V71	24
273 2 61		BE	GOTIT				I	5	0649	B 670 S	24
274 2 62	*										
275 2 63	*										
276 2 64	*		READ IN PHASE 2								
277 2 65	*										
278 2 66	#										
279 2 67		BCE	THRU, MAINX+5, *				I	8	0654	B 634 006 *	24
280 2 68	PREPS2	В	SAVCD				I	4	0662	B 098	25
281 2 69		В	PASS2				I	4	0666	B V06	25
282 2 70	GOTIT	MCW	*M*,LENGTH				I	7	0670	M W13 743	25
283 2 72	WHOM	8	WRTREC				I	4	0677	B 721	25
284 2 73	NEXREC		REDREC				I	4	0681	B 774	25
285 2 74	GAMMA	BCE	WHOM, MAINX+5, *				I	8	0685	B 677 006 #	25
286 2 75	•	C	MAINX+17, DTF				Ī	7	0693	C 018 W16	25
287 2 76		BE	DTFND				ī	5	0700	B 713 S	26
288 2 77		В	WRTREC				Ī	4	0705	B 721	26
289 2 78		B	UPPER				ī	4	0709	B 821	26
290 2 79	DTFND	В	SAVCD				Ĭ	4	0713	B 098	26
291 2 80	DIFNU	В	CRDOUT				Ī	4	0717	B J68	26
292 2 81		U	CRUGOI				•	7	OILI	5 000	20
	# #		WRITE ROUTINE								
293 2 82	*		WRITE ROUTINE								
294 2 83	# W0 #0 EC	can	UDTEVT.2				7	ı.	0721	н 761	24
295 2 84	WRTREC		WRTEXT+3				I	4	0725		26 26
296 2 85		MCW	LMAINX,LOPUT-1				I	7 4	0732	M 086 197	26 27
297 2 86		SW	LOPUT				I	4	0132	• I98	27

650	DC 1 741	1 4051	0.0	ODED ANDE		SFX	C T	LOCN	INSTRUCTION TYPE	CADD
2EA	PG LIN	LABEL	OP	OPERANDS		SEX	CI	LOCN		CARD
298	2 87		MCW	GMWMRK, LOPUT		I	7	0736	M 773 198	27
299	2 88	LENGTH	NOP	'W',OUTPT+74		I	7	0743	N W17 186	27
300	2 89	SHORT	В	CTAPE		I	4	0750	8 S22	27
301	2 90		NOP	TDF6		I	4	0754	N 764	27
302	2 91	WRTEXT	В	0		I	4	0758	B 000	27
303	2 92	TDF6	DCW	000		I	3	0764		27
304	2 93		WT	6,OUTPT		I	8	0765	M (U6 I12 W	28
305	2 94	GMWMRK	DC	1 1		I	1	0773		28
306	2 95	*								
307	2 96	*		READ ROUTINE						
308	2 97	*								
309	2 98	REDREC	SBR	REDEXT+3		I	4	0774	H 809	28
310	2 99		CS	LMAINX		I	4	0778	/ 086	28
311	3 00		888	RTWED, C		I	5	0782	B 798 C	28
312	3 01		BLC	DTFOUT		1	5	0787	B M46 A	28
313	3 02		R			I	1	0792	1	28
314	3 03		SSB	REDEXT,1		I	5	0793	K 806 1	28
315	3 04	RTWED	В	CTAPE		I	4	0798	B S22	29
316	3 05		NOP	TDF4		I	4	0802	N 812	29
317	3 06	REDEXT		0		I	4	0806	В 000	29
318	3 07	TDF4	DCW	+DTFOUT		I	3	0812	M46	29
319	3 08		RT	4. MAINX		I	8	0813	M (U4 001 R	29
320	3 09	*	,,,	• • • • • • • • • • • • • • • • • • • •		_				
321	3 10	*		LOOK UP LABEL						
322	3 11	*								
323	3 12	UPPER	CW	SCNSW=1		I	4	0821) W18	29
324	3 13		BCE	NEXREC, MAINX+20,		Ī	8	0825	B 681 021	29
325	3 14		SBR	CHAIR+3, LSTPAR		Ī	7	0833	H 066 075	30
326	3 15		S	INDEX2+1		Ī	4	0840	S 095	30
327	3 16		SBR	INDEX3, LBLTBL		Ī	7	0844	H 099 H46	30
328	3 17	COMPR	C	MAINX+7,0+X3		Ī	7	0851	C 008 0+0	30
329	3 18		SBR	INDEX3		Ī	4	0858	Н 099	30
330	3 19		BE	COMEQ		I	5	0862	B 984 S	30
331	3 20		BCE	NEXREC, 0+x3,		I	8	0867	B 681 0+0 *	31
332	3 21		A	171,INDEX2		I	7	0875	A W19 094	31
333	3 22		В	COMPR		I	4	0882	B 851	31
334	3 23	BRTBL	В	ACTSCN		I	4	0886	B /13	31
335	3 24		DCW	+DIOCSB+36	INPFXNO	I	3	0892	612	31
336	3 25		В	REASB		Ī	4	0893	B /73	31
337	3 26		DCW	=3	READERROR	1	3	0899		31
338	3 27		В	OPDSCN		I	4	0900	B 014	32
339	3 28		DCW	+RWDTB	RWDOPTION	I	3	0906	F95	32
340	3 29		В	OPDSCN		I	4	0907	B 014	32
341	3 30		DCW	+DRITB	DRIVETYPE	I	3	0913	F82	32
342	3 31		В	OPDSCN	2	Ī	4	0914	B 014	32
343	3 32		DCW	+COUTB	COUNTS	I	3	0920	G08	32
344	3 33		В	ACTSCN	-	1	4	0921	B /13	32
345	3 34		DCW	+DIOCSB+35	VARINP	Ī	3	0927	611	33
346	3 35		В.	EXISB		Ī	4	0928	8 992	33
347	3 36		DCW	=3		I	3	0934		33
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1401 AUTOCODER-PASS 2-PROCESS IOCS-MAIN 2 -VERSION 3

SEQ F	PG LIN	LABEL	OP	OPERANDS		SFX CT	LOCN	INSTRUCTION TYPE	CARD
348	3 37		В	ACTSCN		I 4	0935	B /13	33
349	3 38		DCW	+DIOCSB+17	ALTDRIVE	I 3	0941	593	33
350	3 39		В	OPDSCN		I 4	0942	B 014	33
351	3 40		DCW	+LABTB	LABELDEF	I 3	0948	F20	33
352	3 41		В	OPDSCN		I 4	0949	B 014	34
353	3 42		DCW	+IODTB	IODEVICES	I 3	0955	E77	34
354	3 43		В	OPDSCN		I 4	0956	B 014	34
355	3 44		DCW	+FEATB	FEATURES	I 3	0962	E52	34
356	3 45		В	DIOSB	DIOCSORG	I 4	0963	B /47	34
357	3 46		DCW	+DIOCSB+5		I 3	0969	581	34
358	3 47		В	DIOSB		I 4	0970	B /47	34
359	3 48		DCW	DIOCSB+44		I 3	0976	620	35
360	3 49		В	OPDSCN		I 4	0977	B 014	35
361	3 50		DCW	+TAPTB		I 3	0983	E33	35
362	3 51	COMEQ	S	INDEX3+1		I 4	0984	S 100	35
363	3 52		В	BRTBL+X2		I 4	0988	B 8Q6	35
364	3 53	*							
365	3 54	EXISB	LCA	<pre>*\$*,DIVIDE+3</pre>		I 7	0992	L W20 571	35
366	3 55		В	OPDSCN		I 4	0999	B 014	35
367	3 56		DCW	+EXITB	EXITS	I 3	1005	F69	36
368	3 57	*							
369	3 58	NEWSCN	SBR	NWEXT+3		I 4	1006	H /04	36
370	3 59		MCW	',OPDAR=3		1 7	1010	M W23 W26	36
371	3 60		S	INDEX2+1		I 4	1017	S 095	36
372	3 61	NWSCNL	С	MAINX+21+X3,		1 7	1021	C 0B2 W28	36
373	3 62		SW	MAINX+20		I 4	1028	, 021	36
374	3 63		ΒE	FDBLK		I 5	1032	B +90 S	36
375	3 64		BCE	FOUND, MAINX+20+X3,,		1 8	1037	B /05 OB1 ,	37
376	3 65		C	INDEX3, '52'		I 7	1045	C 099 W30	37
377	3 66		BE	BLKFD		I 5	1052	B ‡97 \$	37
378	3 67		MCW	MAINX+20+X3,OPDAR-2+X2		I 7	1057	M OB1 WK4	37
379	3 68		A	'1', INDEX2		I 7	1064	A W31 094	37
380	3 69		BCE	FOUND, INDEX2,3		I 8	1071	B /05 094 3	38
381	3 70		A	11, INDEX3		I 7	1079	A W31 099	38
	3 71		В	NWSCNL		I 4	1086		38
383	3 72	FDBLK		'1', INDEX3		1 7	1090	A W31 099	38
384	3 73		SW	SCNSW		I 4	1097	, W18	38
385	3 74	NWEXT	В	0		I 4	1101	В 000	38
386	3 75	FOUND	В	SCANX		I 4		B N55	38
387	3 76		В	NWEXT		I 4	1109	B /01	39
388	3 77	*							
389	3 78	*		ACTUAL SCAN FOR YES					
390	3 79	*							
391	3 80	ACTSCN		INDEX1			1113		39
392	3 81		MCW	2+X1,INDEX1		I 7		M 0‡2 089	39
393	3 82		C	MAINX+22, YES		I 7		C 023 W34	39
394	3 83		BU	ACTOUT		I 5	1131		39
395	3 84		LCA	'\$',0+X1		I 7		L W20 0+0	39
396	3 85	ACTOUT	В	EITHER		I 4	1143	B 333	39
397	3 86	#							

SEQ PG LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTIO	N TYPE	CARD
398 3 87 399 3 88	*		DIOCSORG						
400 3 89	* DIOSB	SBR	INDEX1	I	4	1147	Н 089		40
401 3 90	DICSB	MCW	2+X1,INDEX1	Ī	7	1151	M 0#2 089		40
402 3 91		В	SCANX	i	4	1158	B N55		40
403 3 92		LCA	MAINX+18+X3,0+X1	ī	7	1162	L 0A9 0+0		40
404 3 93		В	NEXREC	Î	4	1169	B 681		40
405 3 94	*	Ü	NEAREC	•	4	1107	5 001		70
406 3 95	*		READERROR						
407 3 96	*		NEADENNER						
408 3 97	REASB	SBR	CHAIR+3, CHTAP	I	7	1173	H 066 /87		40
409 3 98	KEASU	В	OPDSCN	ī	4	1180	B 014		40
410 3 99		DCW	+REATB	Ī	3	1186	627		41
411 4 00	CHTAP	C	OPDAR, TAP	ī	7	1187	C W26 W37		41
412 4 01	CHIAF	BU	LSTPAR	Ī	5	1194	B 075 /		41
413 4 02		В	SCANX	ī	4	1199	B N55		41
414 4 03		BCE	LSTPAR, MAINX+18+X3,	i	8	1203	B 075 0A9		41
415 4 04		MCW .	MAINX+18+X3,DIOCSB+31	Ī	7	1211	M 0A9 607		41
416 4 05		B	LSTPAR	Ī	4	1218	B 075		41
417 4 06	*	b	FOLLMI	•	**	1210	<i>5</i> 013		4.7
418 4 07	*		COMBINATION REAC/ WRITE ROUTINE						
419 4 08	*		COMPTANTED READY WATTE ROOTINE						
420 4 09	CTAPE	SBR	INDEX2	I	4	1222	H 094		42
421 4 10	CIAPL	SBR	ICONPR+3	Ī	4	1226	H T43		42
422 4 11		MCW	3+X2, INDEX2	ī	7	1230	M 0-3 094		42
423 4 12		MCW	8+X2,ITAPEC+7	ī	7	1237	M 0-8 T01		42
424 4 13		MCW	0+X2, IEORC+3	Ţ	7	1244	M 0-0 T13		42
425 4 14		SW	ICOMPR+4	1	4	1251	, T19		42
426 4 15		MCW	7+X2,ICOMPR+6	ī	7	1255	M 0-7 T21		43
427 4 16		A	1121, ICOMPR+6	Ī	7	1262	A W39 T21		43
428 4 17		ĊW	ICOMPR+4	1	4	1269) T19		43
429 4 18		MN	ITAPEC+3, IHALT+6	ī	7	1273	D S97 U28		43
430 4 19		MN	ITAPEC+7, IHALT+6	Ī	7	1280	D T01 U28		43
431 4 20		MCW	'9', IERRCT=1	Ī	7	1287	M W40 W41		43
432 4 21	ITAPEC		0,0	Î		1294	M (UO 000	R	44
433 4 22	TIMILO	BCE	ICMETS, ITAPEC+7, W	Ī	8	1302	B T35 T01		44
434 4 23	IEORC	BEF	0	ī	5	1310	В 000 К	**	44
435 4 24	ICOMPR		ITAPEC,0,	Ī	8	1315	B S94 000		44
436 4 25	TOUTH	CHAIN		•	•		0 07 1 000	MACRO	
437		BCE	* C	I	1	1323	В	GEN	44
438		BCE		Ī	ī	1324	В	GEN	44
439		BCE		Ī	ī	1325	В	GEN	44
440		BCE		ī	ī	1326	В	GEN	45
441		BCE		ī	ī	1327	В	GEN	45
442		BCE		ī	ī	1328	8	GEN	45
443		BCE		Ī	î	1329	8	GEN	45
444		BCE		î	ì	1330	8	GEN	45
445		BCE		ī	î	1331	В	GEN	45
446		BCE		Ī	ì	1332	В	GEN	45
447		BCE		Î	ī	1333	В	GEN	46
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SEQ	PG LIN	LABEL	OP	OPERANDS	SFX	СТ	LOCN	INSTRUCTION TYPE	CARD
448			BCE		I	ì	1334	B GEN	46
449	4 26	IOMETS		IRWRED	Ī	5	1335	B T44 L	46
450	4 27	ICONPR		0	ī	4	1340	В 000	46
451	4 28	IRWRED		'1', IERRCT	ī	7	1344	S W31 W41	46
452	4 29	INANCO	MN	ITAPEC+3,*+4	ī	7	1351	D S97 T61	46
453	4 30		BSP	0	ī	5	1358	U (UO B	46
454	4 31		BCE	ITROW, ITAPEC+7, W	ī	8	1363	B T83 T01 W	47
455	4 32		BM	IHALT, IERRCT	ī	8	1371	V U22 W41 K	47
456	4 33		В	ITAPEC	Î	4	1379	B S94	47
457	4 34	ITROW	A	11', IERASC=2	ī	7	1383	A W31 W43	47
458	4 35	11101	SKP	6	Î	5	1390	U (U6 E	47
459	4 36		BCE	ICHALT, IERASC-1,5	ī	8	1395	B U07 W42 5	48
460	4 37		В	ITAPEC-7	ī	4	1403	B S87	48
461	4 38	ICHALT		IERASC	ī	4	1407	S W43	48
462	4 39	TOTIAL	Н	0,202	Ť	7	1411	. 000 202	48
463	4 40		В	ITAPEC-7	Ī	4	1418	B S87	48
464	4 41	IHALT	Н	0,200	Î	7	1422	. 000 200	48
465	4 42	INALI	BSS	ITAPEC-7,E	Ť	5	1429	B S87 E	48
466	4 43		MCW	ITAPEC+7, *+8	ī	7	1434	M T01 U48	49
467	4 44		RT	0,0	ī	8	1441	M (UO 000 R	49
468	4 45		H	0,201	Ī	7	1449	• 000 201	49
469	4 46		В	ICONPR	Ť	4	1456	B T40	49
470	4 47	PASSI	LCA	ENDDIO, ENDDTF	Ì	7	1460	L 622 567	49
471	4 48	r A J J I	LCA	CHODIOACHADIA	ī	i	1467	L 022 301	49
472	4 49		SBR	EITHER+3,DIFREC	Ť	7	1468	H 336 M06	50
473	4 50		MCW	+DTFTAB+X1,OPDFND+6	Ť	7	1475	M W46 093	50
474	4 51		LCA	186, LMAINX	ī	7	1482	L 186 086	50
475	4 52		В	WRTREC	ī	4	1489	B 721	50
476	4 53		В	DTFNM	ī	4	1493	B L91	50
477	4 54	ALTBY	В	BYPSS	ī	4	1497	B C49	50
478	4 55	AL IUI	BSP	4	Ŷ	5	1501	U (U4 B	50
479	4 56	PASS2	RT	1,3997	Ī	8	1506	M (U1 197 R	51
480	4 57	1 7332	RT	1,3997	Ī	8	1514	M (U1 197 R	51
481	4 58		SBR	TDF1+7,341	Ī	7	1522	H P30 341	51
	4 59		В	CTAPE	Ī	4		B S22	51
483	4 60		NOP	TDF1	Ī	4	1533	N P23	51
484	4 61		В	OVLY3	Ī	4	1537	B 341	51
485	4 62	*	U		•	•	255.	5 3.1	- 4
486	4 63	NUMERC	SAR	INDEX1	1	4	1541	H 089	51
487	4 64	HONENO	MCW	2+X1,INDEX1	Ī	7	1545	M 0+2 089	52
488	4 65		SW	MAINX+20	Ī	4	1552	, 021	52
489	4 66		MCW	MAINX+20,DTFTAB+X1	Ī	7	1556	M 021 3U9	52
490	4 67		В	DIFREC	ī	4	1563	B M06	52
491	4 68	KDIOCS		'DIOCS'	Ĭ	5	1571	2 1.00	52
492	4 69	BLORB	В	SCANX	Ī	4	1572	B N55	52
493	4 70		A	MAINX+18+X3,BLOWA-1	Ī	7	1576	A 0A9 W01	52
494	4 71		LCA	BLOWA-1, DTFTAB+24	ĵ	7	1583	L W01 373	53
495	4 72		S	BLOWA	Ī	4	1590	S W02	53
496	4 73		В	EITHER	Î	4	1594	B 333	53
497	4 74	BLCWA	DCW	+00000	Î	5	1602		53
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SEQ PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION TYPE	CARD
502 4	79		JOB	1401 AUTOCODER-PASS 2-PROCESS IOCS-MAIN 1 -VERSION	N 3				
503 4	80		ORG	1650	I			1650	
504 4	81		SFX	I					
505 4	82	*							
506 4		*		DTF TABLE OF BRANCHES					
507 4		*							
508 4		DTFINT		INDEX3, DTFLAB	1	7	1650	н 099 ноз	61
509 4			SBR	CHAIR+3, LSTPAR	I	7	1657	H 066 075	61
510 4			BCE	DIFREC, MAINX+20,	I	8	1664	B M06 021	61
511 4			CW	SCNSW	Ī	4	1672) W18	61
512 4			C	MAINX+6, EX*	I	7	1676	C 007 H48	61
513 4			BE	EXIRB	1	5	1683	B -31 S	61
	91		S	INDEX2+1	I	4	1688	S 095	62
515 4		SEEK	C	MAINX+7,0+X3	1		1692	C 008 0+0	62
516 4			SBR	INDEX3	i ,	4	1699	H 099	62
	94		BE	AGREE	i	5	1703	B Z35 S	62
518 4			BCE	DIFREC,0+X3,1	1	8	1708	B M06 0+0 *	62
519 4			A	171, INDEX2	1	,	1716	A H49 094	62
520 4		0.7.5.0.0	В	SEEK	i T	4	1723	B W92	62
521 4		DTFBR	В	OPDSCN DEHTND	1	4	1727 1733	B 014	63 63
522 4			DCW	REWXZ REWIND	i. T	3	1734	E00 B -89	63
	00		B	ACTUAL PER SEC	T T	7	1740	554	63
	01 02		DCW	+DTFTAB+205 REELSEQ ACTUAL	1 T	3 4	1741	B -89	63
	03		B DCW	+DTFTAB+1C8 SERIALNUM	I T	3	1747	457	63
	04		В	HEARB	Ţ	ر د	1748	B N37	63
	05		DCW	+DTFTAB+103	Ţ	3	1754	452	64
	06		В	OPDSCN	I	4	1755	B 014	64
	07		DCW	+CHEXZ CHECKLABEL	Ī	3	1761	D87	64
	08		В	OPDSCN	ī	4	1762	B 014	64
	09		DCW	+TYPXZ TYPELABEL	Ī	3	1768	D74	64
	10		8	TOTRB	Ī	4	1769	8 Z81	64
	11		DCW	=3 TOTALS	Ī	3	1775		64
	12		В	ACTUAL	ī	4	1776	8 -89	65
	13		DCW	+DTFTAB+75 WLRADDR	Ī			424	65
	14		В	ACTUAL	Ī	4	1783	8 -89	65
	15		DCW	+DTFTAB+65 EOFADDR	Ī	3	1789	414	65
	16		В	INDRB	I	4	1790	B -71	65
	17		DCW	=3 INDEXREG	I	3	1796		65
	18		В	ACTUAL	I	4	1797	B -89	65
	19		DCW	+DTFTAB+54 WORKAREA	I	3	1803	403	66
	20		В	IOARB	I	4	1804	B Z47	66
544 5	21		DCW	+DTFTAB+44 IOAREAS	1	3	1810	393	66
545 5	22		В	BLORB	I	4	1811	B V72	66
	23		DCW	+DTFTAB+24 BLOCKSIZE	I	3	1817	373	66
	24		В	NUMERC	I	4	1818	B V41	66
	25		DCW	O20 PADDING	I	3	1824		66
	26		В	ACTUAL	I	4	1825	B -89	67
	27		DCM	+DTFTAB+19 SIXEREC	I	3	1831	368	67
551 5	28		В	OPDSCN	I	4	1832	B 014	67

SEQ PG LIN	LABEL	OP	OPERANDS		SFX	CT	LOCN	INSTRUCTION TYPE	CARD
552 5 29		DCW	+RECXZ	RECFORM	I	3	1838	055	67
553 5 30		B	NUMERC	11201 01111	Ī	4	1839	B V41	67
554 5 31		DCW	'011'	ALTTAPE	Ī	3	1845		67
555 5 32		В	NUMERC		Ī	4	1846	B V41	67
556 5 33		DCW	'010'	CARDPOC	Ī	3	1852		68
557 5 34		В	OPDSCN		Ī	4	1853	B 014	68
558 5 35		DCW	+MODXZ	MODEPAR	1	3	1859	D30	68
559 5 36		В	OPDSCN		I	4	1860	B 014	68
560 5 37		DCW	+FILXZ	FILETUPE	I	3	1866	D23	68
561 5 38		В	NUMERC		1	4	1867	B V41	68
562 5 39		DCW	10091	CHANDRIVE	I	3	1873		68
563 5 40		В	ACTUAL		I	4	1874	B -89	69
564 5 41		DCW	DTFTAB+198	VARBUILD	I	3	1880	547	69
56 5 5 42		В	ACTSCN		I	4	1881	B /13	69
566 5 43		DCW	+DTFTAB-7		I	3	1887	342	69
567 5 44		В	NUMERC		I	4	1888	B V41	69
568 5 45		DCW	1206		1	3	1894		69
569 5 46		В	OVERB		I	4	1895	B -06	69
570 5 47		DCW	=1		I	1	1899		70
571 5 48		ORG	1900		1			1900	
572 5 49		RTW	1,1		I	8	1900	L (U1 001 R	70
573 5 50		BER	HALT		I	5	1908	B Z21 L	70
574 5 51		CW	OVER		I	4	1913) W49	70
575 5 52		В	OTHER		1	4	1917	B 101	70
576 5 53	HALT	BSP	1		I	5	1921	U (U1 B	70
577 5 54		NOP	288		I	4	1926	N 288	70
578 5 55		Н			I	1	1930	•	71
579 5 56		В	1900		I	4	1931	B Z00	71
580 5 57	*				_				
581 5 58	AGREE	S	INDEX3+1		I	4	1935	S 100	71
582 5 59		SW	MAINX+20		I	4	1939	, 021	71
583 5 60		8	DTFBR+X2		I	4	1943	B XK7	71
584 5 61	*	•	IDAREAS						
585 5 62	*		CCANN			,	10/7	o NEE	71
586 5 63	IOARB		SCANX					B N55	71
587 5 64		LCA	MAINX+18+X3,DTFTAB+44		I	7	1951	L 0A9 393 V 333 W18 1	71
588 5 65		BW	EITHER, SCNSW		1	8	1958		72 72
589 5 66		В	SCANX		I	4	1966	8 N55	72 72
590 5 67		LCA	MAINX+18+X3,DTFTAB+34		I I	7	1970 1977	L 0A9 383 B 333	72
591 5 68		В	EITHER		4	4	1711	6 333	12
592 5 69 503 5 70	*		TOTALS						
593 5 70 594 5 71	#		TOTALS						•
595 5 72	* TOTRB	SBR	CHAIR+3,TCTJK		1	7	1981	H 066 Z95	72
596 5 73	HUIND	В	OPDSCN		1	4	1988	B 014	72
597 5 74		DCW	+TOTXZ		A T	3	1994	E20	72
598 5 75	TOTJK	LCA	MAINX+18+X3,DTFTAB+80		ı T	7	1995	L 0A9 429	73
599 5 76	10101	В	LSTPAR		Ī	4	2002	B 075	73
600 5 77	OVERB	SBR	CHAIR+3, OVEJK		ī	7	2006	H 066 -20	73
601 5 78	U+ L.11U	В	OPDSCN		ī	4	2013	B 014	73
		-	5		.	•			

SEQ PG LIN	LABEL	OP	OPERANDS		SFX	CT	LOCN	INSTRUCTION TYPE	CARD
602 5 79		DCW	+OVEXZ	OVERFLOW	I	3	2019	E13	73
603 5 80	OVEJK	LCA	MAINX+18+X3,DTFTAB+216		I	7	2020	L 0A9 565	73
604 5 81	012011	В	LSTPAR		Ī	4	2027	B 075	73
605 5 82	*	_			_				
606 5 83	*		EXITS ROUTINE						
607 5 84	*								
608 5 85	EXIRB	MCW	'1 8', INDEX2		I	7	2031	M H52 094	74
609 5 86		MN	MAINX+7, INDEX2-1		I	7	2038	D 008 093	74
610 5 87		S	INDEX3+1		1	4	2045	S 100	74
611 5 88		В	SCANX		I	4	2049	B N55	74
612 5 89		LCA	MAINX+18+X3, DTFTAB+X2		I	7	2053	L 0A9 3M9	74
613 5 90		LCA	*\$*,DTFTAB-6		I	7	2060	L H53 343	74
614 5 91		В	DIFREC		I	4	2067	B M06	75
615 5 92	*								
616 5 93	*		INDEX REGISTER						
617 5 94	#								
618 5 95	INDRB	MN	MAINX+21,DTFTAB+55		I	7	2071	D 022 404	75
619 5 96		MZ	' ',DTFTAB+55		I	7	2078	Y H54 404	75
620 5 97		В	DIFREC		I	4	2085	B M06	75
621 5 98	*								
622 5 99	*		LOAD PARAMETERS - ACTUAL						
623 6 00	*								
624 6 01	ACTUAL	SBR	INDEX1		I	4	2089	H 089	75
625 6 015		BW	EITHER, SCNSW		I	8	2093	V 333 W18 1	75
626 6 02		MCW	2+X1,INDEX1		1	7	2101	M 0+2 089	76
627 6 03	SEARCH	В	SCANX		I	4	2108	B N55	76
628 6 04		LCA	MAINX+18+X3,0+X1		1	7	2112	L 0A9 0+0	76
629 6 05		SBR	INDEX1		I	4	2119	н 089	76
630 6 06		B₩	DIFREC, SCNSW		I	8	2123	V M06 W18 1	76
631 6 07		В	SEARCH		I	4	2131	B J08	76
632 6 08	NEWWRT		WRTEXT+3		I	4	2135	Н 761	76
633 6 09		MCW	LMAINX, LOPUT-1		I	7	2139	M 086 197	77
634 6 10		SW	OUTPT+80		I	4	2146	, 192	77
635 6 11		MCW	GMWMRK, OUTPT+80		I	7	2150	M 773 192	77
636 6 12	LONG	MCW	**',OUTPT+73		I	7		M H55 185	77
637 6 13		В	SHORT		I	4	2164	B 750	77
638 6 14	*								
639 6 15	#		OUTPUT MACRO STATEMENT F	OK DIOC					
640 6 16	*	***	APA TRPC.			-	21/0	D 1157 770	~~
641 6 17	CRDOUT		151,TDF6+4		1	7	2168	D H56 768	77
642 6 18		CS	LMAINX		I	4	2175	/ 086	78 70
643 6 19		MCW	'55555', MAINX+19		I	7	2179	M H61 020	78 70
644 6 20		SBR	INDEX3, ENDDIO		1	7	2186	H 099 622	78 79
645 6 21	COOD	B	GOOD+4		1 T	4	2193 2197	8 K01 / 086	78 78
646 6 22	GOOD	CS	LMAINX		I	4	2201	, 001	78
647 6 23		SW	I TADEVI MAINVA2O		1	4 7	2201	H 089 021	78
648 6 24		SBR MCW	INDEX1, MAINX+20		Ţ	7	2212	M H62 073	79
649 6 25 650 6 26	LODPAR		<pre>"+",MAINX+72 0+X3,WKAREA-1</pre>		I	7	2212	M 0+0 L89	79
651 6 27	LUUPAK	SBR			I	4	2226	H 094	79
031 0 21		JUK	INDEX2		•	7	2220	11 077	1 3

652 6 29	SEQ	PG LIN	LABEL	OP	OPERANDS	SFX (СТ	LOCN	INSTRUCTION TYPE	CARD
563 6 29	652	6 28		MCM	INDEX1.SAVXI1=3	1	7	2230	M 089 H65	79
SSR INDEXI						Ī				
655 6 31						i	- 7			
Section Sect						ī				
657 6 33						ī	-			
558 6 34						Ī				
659 6 35						Ī	-			
600 6 36 MCW MAINX+78						Î				
661 6 37						ī	-			
662 6 38 B NEMBRT I 4 2289 B J35 81 664 6 40 B GOOD I 1 4 2297 B J97 81 665 6 41 CONTIN MCN 0*3,0*X3 I 7 2301 M 0*0 0*0 81 666 6 42 SBR INDEX3 I 7 2301 M 0*0 0*0 0*0 667 6 43 CCMBLK C 0*X3,1* I 7 2312 C 0*0 H54 81 668 6 44 SBR INDEX3 I 7 2312 C 0*0 H54 81 668 6 44 SBR INDEX3 I 7 2312 C 0*0 H54 81 668 6 44 SBR INDEX3 I 7 2312 C 0*0 H54 81 668 6 44 SBR INDEX3 I 7 2312 C 0*0 H54 81 668 6 46 SBR COMBLK I 5 5 2323 B L12 S 82 670 6 46 A '!*,INDEX3 I 8 2335 B L12 S 82 670 6 46 A '!*,INDEX3 I 8 2335 B L12 S 82 671 6 47 B ALLDIO,0*X3,* I 8 2335 B L47 0*0 , 82 672 6 48 B LODPAR I 7 2342 M H70 099 82 673 6 49 ALLDIO MCN '.*,MAINX*72 I 7 2344 M H69 0*0 82 674 6 50 MCN '.*,MAINX*72 I 7 2344 M H69 0*0 82 675 6 51 B NEWHRT I 4 2361 B J35 83 676 6 52 CH OUTPT+80 I 7 2354 M H64 0*73 83 678 6 55 WKAREA DCN ' * '						Ī				
669 6 40 B GOOD I 4 2297 B 397 81 665 6 41 CONTIN MCW 0+X3,0+X3 I 7 2301 M 0+0 0+0 81 665 6 41 CONTIN MCW 0+X3,0+X3 I 4 2300 M 0+0 0+0 81 666 6 42 SBR INDEX3 I 4 2308 M 0+0 99 81 667 6 43 CCMBLK C 0+X3,' ' I 7 2312 C 0+0 H54 81 667 6 43 CCMBLK C 0+X3,' ' I 7 2312 C 0+0 H54 81 668 6 44 SAR INDEX3 I 4 2319 Q 099 82 669 6 45 BE COMBLK I 5 2323 B L12 S 82 670 6 46 A '1',INDEX3 I 5 2323 B L12 S 82 671 6 47 B ALLDIO,0+X3,' I 8 2335 B L47 0+0 , 82 672 6 48 ALLDIO,0+X3,' I 8 2335 B L47 0+0 , 82 673 6 49 ALLDIO MCW ',O+X1 I 7 2344 B K19 82 674 6 50 MCW ',MAINX+72 I 7 2344 B K19 82 675 6 51 B NMENT I 4 2365 I 192 676 6 52 CW OUTPT+80 I 2 2365 I 192 677 6 53 WAFER DCW ' ' 1 I 1 2300 B H17 768 83 678 6 54 BETTER B PASS1 I 1 2 2307 B U60 83 678 6 55 WKAFER DCW ' ' 1 I 1 2300 B H17 768 83 680 6 56 DTFNM S INDEX3+1 I 1 2 2391 S 100 84 681 6 57 B SCANX I 4 2391 S 100 84 682 6 58 WKAFEA DCW ' ' 1 I 1 2300 B H3 683 6 59 DIFREC B REREC I 1 4 2391 S 100 84 684 6 6 0 DELTA BCE ALPH,NHINX+5,* I 1 8 2434 B M 0 000 82 686 6 6 6 DIFOUT I 2 2456 B M54 C 84 686 6 6 6 DELTA BCE ALPH,NHINX+5,* I 1 2 2400 B M 30 000 8 687 6 6 3 ALPHA B WKREC I 4 2400 B M 30 000 8 688 6 6 6 DIFOUT M '\$',TDF6+4 I 7 2446 D H56 768 689 6 6 5 B DIFREC B REREC I 4 2400 B M 30 000 8 689 6 6 5 B DIFINT I C SUMINX-19,* I 7 2446 D H56 768 689 6 6 5 B DIFINT I 2 2400 B M 72 699 6 75 B MAINX-17,TDFF+ I 7 2460 D H56 768 689 6 6 7 C C MINX-17,TDFF+ I 7 2460 D H56 768 689 6 74 RIVER SBR BETER-3,PASS2 I 7 2446 D H56 768 689 6 74 RIVER SBR BETER-3,PASS2 I 7 2460 B H59 S 699 6 75 B B GOOD+4 B M 10 X 1 X 1 X 1 X 1 X 1 X 1 X 1 X 1 X 1						Ī				
666 6 40 B GOOD I						ī				
665 6 41 CONTIN MCW						ī	_			
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667 6 43 CCMBLK C			00/// 1//			Ī				
668 6 44 SAR INDEX3 I 4 2319 Q 099 82 669 6 45 BE COMBLK 1 5 2323 B L12 S 82 670 6 46 A '1',INDEX3 I 7 2328 A H70 099 82 671 6 47 B ALLDIQ,0+X3,, I 8 2335 B L47 0+0, 82 673 6 48 B LODPAR I 4 2343 B K19 82 673 6 49 ALLDIO MCH '',0+X1 I 7 2354 M H69 0+0 82 674 6 50 MCH '',MAITAN-72 I 7 2354 M H69 0+0 82 675 6 51 B NEMBRT I 4 2365 I 192 83 676 6 52 CH QUIPT+80 I 4 2365 I 192 83 677 6 53 MAREA DCW '*,** 678 6 55 MKAREA DCW '*,** 680 6 56 DIFNM S INDEX3+1 I 1 2390 B H71 768 83 680 6 56 DIFNM S INDEX3+1 I 1 2390 B H71 768 83 680 6 56 DIFNE S INDEX3+1 I 2395 B N55 84 681 6 57 B SCANX I 1 4 2395 B N55 84 682 6 58 LCA MAINX+18+X3,FILENN I 7 2399 L 0A9 349 84 683 6 59 DIFREC B REDREC I 4 2406 B 774 84 686 6 60 DELTA BCE ALPHA,MAINX+5,** I 8 2410 B M30 006 * 84 687 6 63 ALPHA B WRIREC I 4 2406 B M30 006 * 84 687 6 63 ALPHA B WRIREC I 4 2406 B M60 006 85 689 6 66 DIFOUT I 5 2425 B M60 / 84 687 6 63 B DIFINT I 4 2460 B M90 9567 B 85 689 6 66 DIFOUT I 7 2446 D M56 M60 006 85 689 6 67 SBR MALK+3,ALTBY I 7 2446 B M90 9567 B 85 690 6 69 SBR MALK+3,ALTBY I 7 2447 C 018 H79 86 694 6 70 C MAINX+17,**DIF* I 7 2449 B N05 S 86 695 6 71 CS MAINX+17,**DIF* I 7 2494 B H79 997 86 697 6 73 BE SETIOSN BB BETTER+3,PASS2 I 7 2494 B H79 V06 698 6 74 RIVER SBR BETTER+3,PASS2 I 7 2494 B H79 V06 698 6 74 RIVER SBR BETTER+3,PASS2 I 7 2494 B H79 V06 699 6 75 B GOOD+4 I 7 2505 B H79 N05 SBR BETTER+3,RNDTF I 7 2505 B H79 N05 SBR BETTER+3,RNDTF			COMBLK			ī				
669 6 45 BE COMBLK I 5 2223 B L12 S 82 670 646 A '1',INDEX3 I 7 2328 A H70 099 82 671 6 47 B ALLDIO,0+X3., I 8 2335 B L47 0+0 , 82 672 6 48 B LODPAR I 4 2343 B K19 82 673 6 49 ALLDIO MCW ',0+X1 I 7 2347 M H60 0+0 82 673 6 49 ALLDIO MCW ',0+X1 I 7 2347 M H60 0+0 82 674 6 50 MCW ',MAINX+72 I 7 2347 M H60 0+0 82 675 6 5 B NEWHRT I 4 2361 B J35 83 676 6 52 CW OUTPT+80 I 4 2365 J 192 83 676 6 52 CW OUTPT+80 I 7 2369 D H71 768 83 676 6 53 MN 6'-,TDF6+4 I 7 2369 D H71 768 83 678 6 54 BETTER B PASSI I 4 2376 B U60 83 679 6 55 WAREA DCW ', ', ', ', ', ', ', ', ', ', ', ', ',			CONDER			Ī	-			
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671 6 47						i	-			
672 6 48 8 LODPAR						ī	-			
673 6 49 ALLDIO MCW '', O+X1 I 7 2347 M H69 040 82 674 6 50 MCW '', MAINX+72 I 7 2354 M H54 073 83 675 6 51 B NEWNRT I 4 2361 B J35 83 676 6 52 CW OUTPT+80 I 4 2365 J 192 83 678 6 54 BETTER B PASSI I 7 2376 B U60 83 679 6 55 WKAREA DCW ' †' 680 6 56 DTFNM S INDEX3+1 I 4 2391 S 100 84 681 6 57 B SCANX I 4 2391 S 100 84 681 6 57 B SCANX I 4 2395 B N55 84 682 6 58 LCA MAINX+18+X3,FILENM I 7 2399 L 0A9 349 84 683 6 59 DIFREC B REDREC I 4 2406 B 774 84 684 6 6 0 DELTA BCE ALPHA, MAINX+5,* 685 6 61 C MAINX+19,' ' I 7 2418 C 020 H76 84 686 6 62 BU DTFOUT I 5 2425 B M66 / 84 687 6 63 ALPHA B WRITEC I 4 2400 B 721 85 688 6 6 6 DTFOUT MN '5', TDF6+4 I 7 2482 B M06 006 * 85 689 6 65 B DTFINT I 4 2442 B M50 006 * 85 691 6 67 SBR INDEX3, ENDDIF 692 6 6 8 B SAVCD I 7 2448 B M06 006 * 85 693 6 6 9 SBR WALK+3, ALTBY I 7 2453 H 099 567 85 694 6 70 C MAINX+17, 'DIF' I 7 2453 H 099 567 695 6 71 CS MAINX+17, 'DIF' I 7 2460 H 999 U97 86 696 6 72 MCW '333333', MAINX+19 697 6 75 BEDSW SBR BETTER+3, PASS2 698 6 74 RIVER SBR BETTER+3, PASS2 698 6 75 B B GOOD+4 697 6 75 SEIDSW SBR BETTER+3, PASS2 698 6 74 RIVER SBR BETTER+3, PASS2 697 6 75 B B GOOD+4 697 6 75 B B GOOD+4 697 6 75 B B B BETTER+3, PASS2 698 6 74 RIVER SBR BETTER+3, PASS2 697 6 75 B B GOOD+4 697 6 75 B B GOOD+4 698 6 74 RIVER SBR BETTER+3, PASS2 698 6 75 B B B BETTER+3, PASS2 699 6 75 B B GOOD+4 670 6 75 SEIDSW SBR BETTER+3, PASS2 697 6 75 B B GOOD+4 670 6 75 SEIDSW SBR BETTER+3, PASS2 698 6 75 B B GOOD+4 670 6 75 SEIDSW SBR BETTER+3, PASS2 699 6 75 B B GOOD+4 671 6 75 SEIDSW SBR BETTER+3, PASS2 670 6 75 SEIDSW SBR BETTER+3, PASS2						ī				
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678 6 54 BETTER B PASSI						ī				
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680 6 56 DTFNM S INDEX3+1 I 4 2391 S 100 84 681 6 57 B S CANX I 4 2395 B N55 84 682 6 58 LCA MAINX+18+X3,FILENM I 7 2399 L 0A9 349 84 683 6 59 DIFREC B REDREC I 4 2406 B 774 84 684 6 60 DELTA BCE ALPHA,MAINX+5,* I 8 2410 B M30 006 * 84 685 6 61 C MAINX+19,' I 7 2418 C 020 H76 84 686 6 62 BU DTFCUT I 5 2425 B M46 / 84 687 6 63 ALPHA B WRTREC I 4 2430 B 721 85 688 6 64 BCE DIFREC,MAINX+5,* I 8 2434 B M06 006 * 85 689 6 65 B DTFINT I 4 2442 B W50 85 690 6 66 DTFCUT MN '5',TDF6+4 I 7 2453 H 099 567 85 691 6 67 SBR INDEX3,ENDDIF I 7 2453 H 099 567 85 693 6 69 SBR MALK+3,ALTBY I 7 2460 B 098 85 694 6 70 C MAINX+17,'DTF' I 7 2461 H 099 U97 86 695 6 71 CS MAINX 696 6 72 MGW '333333',MAINX+19 697 6 73 BE SETDSW 698 6 74 RIVER SBR BETTER+3,PASS2 I 7 2494 H L79 V06 86 699 6 75 B B GOOD+4 700 6 76 SETDSW SBR BETTER+3,RNDTF						ī			5 000	
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684 6 60 DELTA BCE ALPHA, MAINX+5,* 685 6 61			DIEREC			Ī				
685 6 61						Ī				
686 6 62 BU DTFCUT I 5 2425 B M46 / 84 687 6 63 ALPHA B WRTREC I 4 2430 B 721 85 688 6 64 BCE DIFREC, MAINX+5,* I 8 2434 B M06 006 * 85 689 6 65 B DTFINT I 4 2442 B W50 85 690 6 66 DTFCUT MN '5', TDF6+4 I 7 2446 D H56 768 85 691 6 67 SBR INDEX3, ENDDTF I 7 2446 D H56 768 85 692 6 68 B SAVCD I 4 2460 B 098 85 693 6 69 SBR WALK+3, ALTBY I 7 2464 H Q99 U97 86 694 6 70 C MAINX+17, 'DTF' I 7 2471 C 018 H79 86 695 6 71 CS LMAINX I 4 2478 / 086 86 696 6 72 MCW '33333', MAINX+19 I 7 2482 M H84 020 86 696 6 72 MCW '33333', MAINX+19 I 7 2482 M H84 020 86 697 6 73 BE SETDSW I 5 2489 B N05 S 86 698 6 74 RIVER SBR BETTER+3, PASS2 I 7 2494 H L79 V06 86 699 6 75 B GOOD+4 I 4 2501 B K01 87 700 6 76 SETDSW SBR BETTER+3, RNDTF			DELTA			Ī	-			
687 6 63 ALPHA B WRTREC 688 6 64 BCE DIFREC, MAINX+5,* 689 6 65 B DTFINT 1 4 2442 B W50 85 690 6 66 DTFOUT MN '5°, TDF6+4 1 7 2446 D H56 768 85 691 6 67 SBR INDEX3, ENDDTF 692 6 68 B SAVCD 1 4 2460 B 098 85 693 6 69 SBR WALK+3, ALTBY 1 7 2464 H Q99 U97 86 694 6 70 C MAINX+17, 'DTF' 1 7 2471 C 018 H79 86 695 6 71 CS LMAINX 1 4 2478 / 086 86 696 6 72 MCW '33333', MAINX+19 697 6 73 BE SETDSW 698 B TIVER SBR BETTER+3, PASS2 699 6 75 B GOOD+4 700 6 76 SETDSW SBR BETTER+3, RNDTF						Ī				
688 6 64 BCE DIFREC, MAINX+5,* I 8 2434 B M06 006 * 85 689 6 65 B DTFINT I 4 2442 B W50 85 690 6 66 DTFOUT MN '5',TDF6+4 I 7 2446 D H56 768 85 691 6 67 SBR INDEX3,ENDDTF I 7 2453 H 099 567 85 692 6 68 B SAVCD I 4 2460 B 098 85 693 6 69 SBR WALK+3,ALTBY I 7 2464 H Q99 U97 86 694 6 70 C MAINX+17,'DIF' I 7 2471 C 018 H79 86 695 6 71 CS LMAINX I 4 2478 / 086 86 696 6 72 MCW '33333',MAINX+19 I 7 2482 M H84 020 86 697 6 73 BE SETDSW BETTER+3,PASS2 I 7 2494 H L79 V06 86 699 6 75 B GOOD+4 I 4 2501 B K01 87 </td <td></td> <td></td> <td>ΔΙ ΡΗΔ</td> <td></td> <td></td> <td>Ī</td> <td>_</td> <td></td> <td></td> <td></td>			ΔΙ ΡΗΔ			Ī	_			
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691 6 67 SBR INDEX3,ENDDTF I 7 2453 H 099 567 85 692 6 68 B SAVCD I 4 2460 B 098 85 693 6 69 SBR WALK+3,ALTBY I 7 2464 H Q99 U97 86 694 6 70 C MAINX+17,'DIF' I 7 2471 C 018 H79 86 695 6 71 CS LMAINX I 4 2478 / 086 86 696 6 72 MCW '33333',MAINX+19 I 7 2482 M H84 020 86 697 6 73 BE SETDSW I 5 2489 B N05 S 86 698 6 74 RIVER SBR BETTER+3,PASS2 I 7 2494 H L79 V06 86 699 6 75 B GOOD+4 I 4 2501 B K01 87 700 6 76 SETDSW SBR BETTER+3,RNDTF			DIFOUT			Ī				
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693 6 69 SBR WALK+3,ALTBY I 7 2464 H Q99 U97 86 694 6 70 C MAINX+17,'DTF' I 7 2471 C 018 H79 86 695 6 71 CS LMAINX 696 6 72 MCW '33333',MAINX+19 I 7 2482 M H84 020 86 697 6 73 BE SETDSW I 5 2489 B N05 S 86 698 6 74 RIVER SBR BETTER+3,PASS2 I 7 2494 H L79 V06 86 699 6 75 B GOOD+4 700 6 76 SETDSW SBR BETTER+3,RNDTF						Ī	-			
694 6 70 C MAINX+17,'DTF' I 7 2471 C 018 H79 86 695 6 71 CS LMAINX I 4 2478 / 086 86 696 6 72 MCW '33333',MAINX+19 I 7 2482 M H84 020 86 697 6 73 BE SETDSW I 5 2489 B N05 S 86 698 6 74 RIVER SBR BETTER+3,PASS2 I 7 2494 H L79 V06 86 699 6 75 B GOOD+4 I 4 2501 B K01 87 700 6 76 SETDSW SBR BETTER+3,RNDTF						Ī				
695 6 71 CS LMAINX I 4 2478 / 086 86 696 6 72 MCW '33333', MAINX+19 I 7 2482 M H84 020 86 697 6 73 BE SETDSW I 5 2489 B N05 S 86 698 6 74 RIVER SBR BETTER+3, PASS2 I 7 2494 H L79 V06 86 699 6 75 B GOOD+4 I 4 2501 B K01 87 700 6 76 SETDSW SBR BETTER+3, RNDTF I 7 2505 H L79 N16 87						Ī	•			
696 6 72 MCW '33333', MAINX+19 I 7 2482 M H84 020 86 697 6 73 BE SETDSW I 5 2489 B N05 S 86 698 6 74 RIVER SBR BETTER+3, PASS2 I 7 2494 H L79 V06 86 699 6 75 B GOOD+4 I 4 2501 B K01 87 700 6 76 SETDSW SBR BETTER+3, RNDTF I 7 2505 H L79 N16 87					·	Ī				
697 6 73 BE SETDSW I 5 2489 B N05 S 86 698 6 74 RIVER SBR BETTER+3,PASS2 I 7 2494 H L79 V06 86 699 6 75 B GOOD+4 I 4 2501 B K01 87 700 6 76 SETDSW SBR BETTER+3,RNDTF I 7 2505 H L79 N16 87						Ī				
698 6 74 RIVER SBR BETTER+3, PASS2 I 7 2494 H L79 V06 86 699 6 75 B GOOD+4 I 4 2501 B K01 87 700 6 76 SETDSW SBR BETTER+3, RNDTF I 7 2505 H L79 N16 87						Ī				
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SEQ	PG LIN	LABEL	ΟP	OPERANDS	SFX	CT	LOCN	INSTRUCTION TYPE	CARD
702	6 78	RNDTF	RTW	1,341	I	8	2516	L (U1 341 R	87
703	6 79		BSP	1.	I	5	2524	U (U1 B	87
704	6 80		CW	DTFGM	I	4	2529) 568	87
705	6 81		В	PASSI	I	4	2533	B U60	87
706	6 82	HEARB	8	SCANX	I	4	2537	B N55	88
707	6 83		MCW	MAINX+18+X3,DTFTAB+103	I	7	2541	M 0A9 452	88
708	6 84		В	ACTUAL	I	4	2548	B -89	88
709	6 85		DCW	+DTFTAB+93	I	3	2554	442	88
710	6 86	*							
711	6 87	*		SCAN FOR A COMMA OR TWO BLANKS					
712	6 88	*			_		0000		• •
713	6 89	SCANX	SBR	CLUBS+3	I	4	2555	H 013	88
714	6 90	SCANL	SW	MAINX+20	I	4	2559	, 021	88
715	6 91		Ċ	MAINX+21+X3,* *	ī	7	2563	C 0B2 H69	88
716	6 92		A	'1',INDEX3	1	[2570	A H70 099	89
717	6 93		BE	SETIT	1	5	2577	B 002 S	89
718	6 94		BCE	SETWMS, MAINX+19+X3,,	1	8	2582	B 006 0B0 ,	89
719	6 95		C	INDEX3, 1521	į. T	7	2590	C 099 H86	89
720	6 96	CETIT	BU	SCANL	i .	5	2597	B N59 /	89
721	6 97	SETIT	SW	SCNSW	I	4	2602 2606	, W18	89 90
722	6 98	SETWMS		MAINX+20+X3	i T	4	2610	, 081	90
723	6 99	CLUBS	В	0	I	4	2010	В 000	70
724	7 00 7 01	*		SCAN CPERAND TABLE					
725 726	7 01	*		SCAN OPERAND TABLE					
727	7 02	*							
728	7 04	OPDSCN	CoD	INDEX2	I	4	2614	н 094	90
729	7 05	UPUSCIN	MCW	2+X2, SAVX2	Ī	7	2618	M 0-2 H89	90
730	7 06	OPERTN		NEWSCN	T	4	2625	B ‡ 06	90
731	7 07	OFDICTIO	MCW	SAVX2=3, INDEX2	ī	7	2629	M H89 094	90
732	7 08	SEEKOP		OPDAR, 0+X2	Ī	7	2636	C W26 0-0	90
733	7 09	SEEROI	SBR	INDEX2	Ť	4	2643	H 094	91
734	7 10		MCW	0+X2.INDEX1	Î	7	2647	M 0-0 089	91
735	7 11		SAR	INDEX2	ī	4	2654	Q 094	91
736	7 12		BE	OPDEND	Ī	5	2658	B 087 S	91
737	7 13	CHAIR	BCE	LSTPAR,0+X2,1	Ī	8	2663	B 075 0-0 ·	91
738	7 14	•	В	SEEKOP	I	4	2671	В 036	91
739	7 15	LSTPAR		EITHER, SCNSW	I	8	2675	V 333 W18 1	92
740	7 16		В	OPDRTN	I	4	2683	B 025	92
741	7 17	OPDFND		*\$*,DIOCSB+X1	I	7	2687	L H53 5X6	92
742	7 18		В	LSTPAR	I	4	2694	B 075	92
743	7 19	SAVCD	SBR	SVCDX+3	1	4	2698	H P20	92
744	7 20		CS	186	I	4	2702	/ 186	92
745	7 21		SW	101	I	4	2706	, 101	92
746	7 22		MCW	LMAINX, 186	1	7	2710	M 086 186	93
747	7 23	SVCDX	В	0	I	4	2717	В 000	93
748	7 24	*							
749	7 25	*		READ IN OVERLAY TWO					
750	7 26	#							
751	7 27	TDF1	DCW	=3	I	3	2723		93

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	СТ	LOCN	INSTRUCTION	TYPE	CARD
752		28		RTW	1,101	I	8	2724	L (U1 101 R		93
753	7	29	OVLAY2	SW	GMOVL2	I	4	2732	, 332		93
754	7	30		MCW	GMWMRK, GMCVL2	I	7	2736	M 773 332		93
755	7	31		RT	1,101	I	8	2743	M (U1 101 R		94
756	7	32		В	CTAPE	I	4	2751	B \$22		94
757	7	33		NOP	TDF1	I	4	2755	N P23		94
758	7	34		В	PUNCH	I	4	2759	B 101		94
759		35	*								
760		36	#		ALTER PART OF IOCS						
761		37	*			_					
762		38	ALTER	В	CTAPE	I	4	2763	B S22		94
763		39		NOP	TDF4A	I	4	2767	N A35		94
764		40		MCW	OUTPT+7, SYMNM	Ī	7	2771	M 119 340		94
765		41		BSS	OUTCL.C	I	5	2778	B 119 C		95 05
766		42		BSP	4	I	5	2783	U (U4 B		95
767		43		SBR	RIVER+6, TUNEL	I	7	2788	H N00 Q88		95 05
768		44		SBR	PREPS2+3	I	4	2795	H 665		95 05
769		45		R	MATERIAL TO BAL OF	I	1	2799	1		95 95
770		46		C	MAINX+17, *ALT '	I	7	2800 28 0 7	C 018 H92 B Q96 /		95
771		47	HOMAI	BU	WALK	I	5 4	2812	B C19		96
772		48	HOMAL	В	SAVXX	I		2816	B R43		96
773		49	NOAL TO	В	PACKX	I I	4	2820	B S22		96
774		50	NOALTB	NOP	CTAPE TDF4A	I	4	2824	N A35		96
775 776		51 52		C	OUTPT+83,HLCA1	Ĭ	7	2828	C 195 102		96
777		53		BE	CHECK	Ī	5	2835	B +05 S		96
778		54	PROPRE		OUTPT+17, *JOB*	Ī	7	2840	C 129 H95		96
779		55	ALTS1	BU	ALTS2E	Ī	5	2847	B Q60 /		97
780		56	ALIJI	В	NOPJB	ī	4	2852	B 205		97
781		57		В	NOTER	Ī	4	2856	B 220		97
782		58	ALTS2E		OUTPT+17, 'CTL'	Ī	7	2860	C 129 H98		97
783		59	ALTS2	BE	OUTCL	Ī	5	2867	B 119 S		97
784	7		SOLVED		OUTPT+85,LMAINX	Ī	7	2872	M 197 086		97
785		61	002120	SW	READS	Ī	4	2879	, I10		97
786		62	ALTIO	BSS	REGEN, G	I	5	2883	B A44 G		98
787		63	TUNEL	BW	BSPT4, READS	I	8	2888	V R04 I10 1		98
788		64	WALK	В	SAVCD	1	4	2896	B 098		98
789		65		В	ALTBY	I	4	2900	B U97		98
790		66	BSPT4	BW	REGL, XCARDS	I	8	2904	V R27 I09 1		98
791		67		MN	'5',TDF6+4	I	7	2912	D H56 768		98
792	7	68		В	NEWWRT	I	4	2919	B J35		99
793	7	69		В	REGL+5	I	4	2923	B R32		99
794		70	REGL	BSP	4	I	5	2927	U (U4 B		99
795	7	71		LCA	AREASV,186	I	7	2932	L 331 186		99
796		72		В	ALTBY	I	4	2939	B U97		99
797		73	PACKX	SBR	PACKS+3	I	4	2943	H +04		99
798		74		SW	BALTR	I	4	2947	, 103		99
799		75		CW	SCNSW	Ī	4	2951) W18		100
800		76		S	INDEX3+1	I	4	2955	S 100		100
801	7	77		В	SCANX	1	4	2959	B N55		100

SEQ PG LIN	LABEL	OP	OPERANDS	SFX	ст	LOCN	INSTRUCTION TYPE	CARD
802 7 78		ZA	MAINX+18+X3, HLDA1=4	1	7	2963	+ 0A9 I02	100
803 7 79		BW	PARKS, SCNSW	I	8	2970	V R93 W18 1	100
804 7 80		В	SCANX	I	4	2978	B N55	100
805 7 81		ZA	MAINX+18+X3, HLDB	I	7	2982	+ 0A9 107	100
806 7 82		CW	BALTR=1	I	4	2989) 103	101
807 7 83	PARKS	CS	LMAINX	I	4	2993	/ 086	101
808 7 84		SW	1	I	4	2997	, 001	101
809 7 85	PACKS	В	0	I	4	3001	В 000	101
810 7 86	#							
811 7 87	*		ALTER NUMBER COMPARES EQUAL					
812 7 88	*							
813 7 89	CHECK	BW	WRTAL, BALTR	I	8	3005	V +37 I03 I	101
814 7 90	DBLAL	С	OUTPT+83,HLDB=4	I	7	3013	C 195 107	101
815 7 91		BE	WRTAL	I	5	3020	B +37 S	101
816 7 92		В	CTAPE	I	4	3025	B \$22	102
817 7 93		NOP	TDF4A	I	4	3029	N A35	102
818 7 94		В	DBLAL	I	4	3033	B +13	102
819 7 95	WRTAL	BLC	TUNEL	I	5	3037	B Q88 A	102
820 7 96		R		I	1	3042	1	102
821 7 97		C	MAINX+17, *ALT*	I	7	3043	C 018 H92	102
822 7 98		ΒE	HOMAL	I	5	3050	B Q12 S	102
823 7 99		С	MAINX+17, JOB	I	7	3055	C 018 H95	103
824 8 00	ALTS3	BU	ALTS4E	I	5	3062	8 +75 /	103
825 8 01		В	NOPJB	I	4	3067	8 205	103
826 8 02		В	RSOLV	I	4	3071	B 175	103
827 8 03	ALTS4E	C	MAINX+17, CTL	I	7	3075	C 018 H98	103
828 8 04	ALTS4	BE	CRDCL	I	5	3082	B 138 \$	103
829 8 05		BW	TUFF, BALTR	I	8	3087	V A03 I03 1	104
830 8 06		CW	READS	I	4	3095) 110	104
831 8 07		В	ALTIO	I	4	3099	B Q83	104
832 8 08	TUFF	В	SAVXX	1	4	3103	B C19	104
833 8 09		CW	XCARDS	I	4	3107) 109	104
834 8 10		SBR	RSOLV+7, SOLVED	I	7	3111	H 182 Q72	104
835 8 101		SBR	CHUCK+3	I	4	3118	H 234	104
836 8 102		MCW	'N', NOSOL	I	7		M I08 131	105
837 8 11		В	PROPRE	1	4	3129	B Q40	105
838 8 12	*							
839 8 13	#		TDF FOR READING 86 CHARACTER RECORDS					
840 8 14	*		·	_	_			
841 8 15	TDF4A	DCW	TUNEL	Ī	3	3135		105
842 8 16		RT	4,OUTPT	I	8	3136	M (U4 I12 R	105
843 8 17	#		DESCRIPTION OF SIDES AND DES					
844 8 18	#		REGENERATION OF DIOCS AND DTF					
845 8 19	# DECEN	Dii	CORPA MCARCE	Ŧ	0	2144	V ASE 100 1	105
846 8 20	REGEN	BW	ORDN, XCARDS	Į.	8	3144	V A85 I09 1	105
847 8 21		SBR	NEXREC+3, SPCAS	I	7	3152	H 684 A74	105
848 8 22		SBR	ALDIO-1,SCFT	I	7	3159 3166	H B02 B68) I10	106 106
849 8 23		CW B	READS FIND	I	4	3170	B 642	106
850 8 24 851 8 25	SPCAS	MCW	AREASV, LMAINX	I	7	3174	M 331 086	106
971 0 23	SPUAS	non.	MUCHATIC		'	7117	11 JJI 000	100

SEQ	PG	LIN	LABEL	OP	OPERANDS		SFX	CT	LOCN	INSTRUCTION TYPE	CARD
852	я	26		SW	XCARDS=1		I	4	3181	, 109	106
853		27	ORDN	SBR	NEXREC+3, ALDIO		Ĭ	7	3185	H 684 B03	106
854		28	OND.	SBR	DIFREC+3, ALDTF		Ī	7	3192	H M09 C08	107
855		29		B	FIND		Ī	4	3199	B 642	107
856		30	ALDIO		LMAINX		Ī	4	3203	/ 086	107
			ALDIU	CS			Ī	8	3207	V 841 I10 1	107
857		31		BW	RDT4A, READS		I	5	3215	B C34 A	107
858		32		BLC	LUNET				3220		
 859		33		R			I	1		1	107
860		34		C	MAINX+17, ALT		I	7	3221	C 018 H92	107
861		35		BU	SOFT		I	5	3228	B B68 /	108
862	8			В	SAVXX		1	4	3233	B C19	108
863		37		В	PACKX		1	4	3237	B R43	108
864		38	RDT4A	В	BYPSS		I	4	3241	B C49	108
865		39		C	OUTPT+83,HLDA1		I	7	3245	C 195 102	108
866		40	FINAL	BE	DBLCK		I	5	3252	B B72 S	108
867	8	41		SW	READS		I	4	3257	, 110	108
868	8	42	FINAL2	MCW	OUTPT+85,LMAINX		I	7	3261	M 197 086	109
869	8	43	SOFT	В	GAMMA		I	4	3268	B 685	109
870	8	44	DBLCK	CW	READS=1		I	4	3272) I10	109
871		45		BW	FINAL2, BALTR		1	8	3276	V B61 I03 1	109
872		46	TRPCK	C	OUTPT+83,HLDB		I	7	3284	C 195 107	109
873		47		BE	ALDIO		I	5	3291	B B03 S	109
874		48		В	CTAPE		I	4	3296	B S22	109
875		49		NOP	TDF4A		Ī	4	3300	N A35	110
876		50		В	TRPCK		Ī	4	3304	B 884	110
877		51	*				•	•	330 .		
878		52	*		DTF ON ALTER	MODE					
879	8		*		or acten	11902					
880	8		ALDTF	SBR	SOFT+3.DELTA		1	7	3308	H B71 M10	110
881		55	ACUIT	8	ALDIO		ī	4	3315	B B03	110
882	8		SAVXX	SBR	SAVXT+3		I	4	3319	H C33	110
			SAVA	MCW			4	7	3323	M 086 331	110
883	8		CAUVE		LMAINX, AREASV		Ţ	4	3330	B 000	110
884		58 50	SAVXT	B	0		Ţ	4	3334	, I10	111
885	8		LUNET	SW	READS		Ţ	7		M I08 B52	111
886		60		MCW	'N',FINAL		į.				
887		61	24000	8	RDT4A		i .	4	3345	B B41	111
888		62	BYPSS	SBR	BYPSX+3		1	4	3349	H C80	111
889		63		В	CTAPE		ī	4	3353	B \$22	111
890		64		NOP	TDF4A		1	4	3357	N A35	111
891		65		BCE	BYPSS+4,OUTPT+74,Y		I	8	3361	B C53 186 Y	111
892		66		BCE	BYPSS+4,OUTPT+74,Z		I	8	3369	B C53 186 Z	112
893	8	67	BYPSX	В	0		I	4	3377	В 000	112
894	8	68	*								
895	8	69	*		DTF TABLE OF OPE	RANDS					
896	8	70	*								
897	8	71		DCW	* * *	FILETYP	I	1	3381		112
898	8	72		DCW	'001'		I	3	3384		112
899		73		DCW	'INP'	INPUT	1	3	3387		112
900		74		DCW	10021		I	3	3390		112
901		75		DCW	'OUT'	OUTPUT	I	3	3393		112

SEQ PG LI	IN LABEL	OP	OPERANDS	i		SFX CT	LOCN	INSTRUCTION TYPE	CARD
902 8 76	5	DCW	10031			I 3	3396		113
903 8 77		DCW	'TAP'		TAPE	1 3			113
904 8 78		DCW	10041			I 3			113
905 8 79		DCW	'REA'		READER	1 3	3405		113
906 8 80		DCW	10051			I 3			113
907 8 81		DCW	PUN		PUNCH	I 3	3411		113
908 8 82		DCW	.008			I 3	3414	•	113
909 8 83		DCW	'CHE'			1 3	3417		114
910 8 84	i	DCW	1006			I 3			114
911 8 85	FILXZ	DCW	'PRI'		PRINTER	I 3			114
912 8 86	5	DCW			MODEPAR	I 1	3424		114
913 8 87		DCW	'007'			I 3	3427		114
914 8 88			*LOA*			I 3			114
915 8 89		DCW			RECFORM	I 1	3431		114
916 8 90		DCW	'012'			I 3	3434		115
917 8 91		DCW	'BLO'		BLOCKED	1 3	3437		115
918 8 92		DCW	'013'			I 3			115
919 8 93		DCW	'UNB'		UNBLOCKED	1 3	3443		115
920 8 94		DCW	'014'			1 3	3446		115
921 8 95		DCW	'FIX'		FIXED	1 3	3449		115
922 8 96		DCW	'015'			I 3			115
923 8 97			'VAR'		VARIABLE	I 3	3455		116
924 8 98		DCW	111		TYPELABEL	I 1	3456		116
925 8 99		DCW	'081'		ST1415.485	I 3	3459		116
926 9 00		DCW	'STA'		STANDARD	I 3			116
927 9 01		DCW	*082*		NOVETANDARD	I 3	3465		116
928 9 02		DCW	'NON'		NONSTANDARD	I 3	3468		116
929 9 03		DCW	'083'		Tis	I 3	3471		116
930 9 04			*TM *		TM	I 3	3474		117
931 9 05		DCW			CHECKLABEL	I 1	3475		117
932 9 06		DCW	084		A	I 3	3478		117
933 9 07		DCM	'ALL'		ALL	I 3	3481		117
934 9 08		DCW DCW	*085*		IDENT	I 3	3484 3487		117
935 9 09 936 9 10		DCW	'IDE'			I 3	3488		117 117
936 9 10 937 9 11		DCW	11991		REWIND	I 3	3491		118
938 9 12		DCW	'UNL'		UNLOAD	I 3	3494		118
939 9 13		DCW	12001		ONEGAD	I 3	3497		118
940 9 14			NOR 1		NOREWD	I 3	3500		118
941 9 15		DCW	111		NONLAD	1 1	3501		118
942 9 16		DCW	*201*			I 3	3504		118
943 9 17		DCW	19 1			I 3	3507		118
944 9 18		DCW	12021			I 3	3510		119
945 9 19			112			I 3	3513		119
946 9 20		DCW	111			I 1	3514		119
947 9 21		DCW	10761			I 3	3517		119
948 9 22			'REC'			I 3			119
949 9 23		J 0 11	* * *** ***						/
950 9 24			DIOCS	CPERAND	TABLE				
051 0 25			2.000						

951 9 25 *

SEQ	PG LIN	LABEL	OP	OPERANDS		SFX CT	LOCN	INSTRUCTION TYPE	CARD
952	9 26		DCW			I 1	3521		119
953	9 27		DCW	-MINUS3+4		i 3	3524	19C	119
954	9 28		DCW	'OUT'		I 3	3527		120
955	9 29		DCW	-MINUS2+4		1 3	3530	19D	120
956	9 30	TAPTB	DCW	'INP'		i 3	3533		120
957	9 31	1,7.10	DCW	111		ī ī	3534		120
958	9 32		DCW	10451	•	Ī 3	3537		120
959	9 33		DCW	'REL'		I 3	3540		120
960	9 34		DCW	10461		I 3	3543		120
961	9 35		DCW	'STO'		I 3	3546		121
962	9 36		DCW	10061		1 3	3549		121
963	9 37	FEATB	DCW	OVE!	OVERLAP	I 3	3552		121
964	9 38		DCW	111		I 1	3553		121
965	9 39		DCW	10071		I 3	3556		121
966	9 40		DCW	'TAP'	TAPE	I 3	3559		121
967	9 41		DCW	1008		I 3	3562		121
968	9 42		DCW	'REA'	READER	I 3	3565		122
969	9 43		DCW	10091		I 3	3568		122
970	9 44		DCW	'PUN'	PUNCH	I 3	3571		122
971	9 45		DCW	'010'		I 3	3574		122
972	9 46	IODTB	DCW	PRI	PRINTER	I 3	3577		122
973	9 47		DCW	111		1 1	3578		122
974	9 48		DCW	'011'		1 3	3581		122
975	9 49		DCW	'STA'	STANDARD	I 3	3584		123
976	9 50		DCW	'012'		I 3	3587		123
977	9 51		DCW	NON'	NONSTANDARD	1 3	3590		123
978	9 52		DCW	'013'		I 3	3593		123
979	9 53		DCW	MIX.	MIXED	I 3	3596		123
980	9 54		DCW	'014'	0.1504	I 3	3599		123
981	9 55		DCW	'CHE'	CHECK	I 3	3602		123
982	9 56		DCW	'015'	TARNE	I 3	3605		124
983	9 57		DCW	'IDE'	IDENT	I 3	3608		124
984	9 58		DCW	'026'		I 3	3611		124
985	9 59		DCW	'RDL'		I 3	3614		124
986		LAGTO	DCM	1016	TM	I 3	3617		124
987	9 61	LABTB	DCW	'IM'	TM	I 3	3620 3621		124 124
988	9 62		DCW DCW	'018'		I 3	3624		125
989 99 0	9 63 9 64		DCW	11	EXIT 1	I 3	3627		125
991	9 65		DCW	10191	LVII I	I 3	3630		125
992	9 66		DCW	12 1	EXIT 2	I 3	3633		125
993	9 67		DCW	10201	LAII Z	i 3	3636		125
994	9 68		DCW	13 1	EXIT 3	I 3	3639		125
995	9 69		DCW	10211		I 3	3642		125
996	9 70		DCW	14 1	EXIT 4	I 3	3645		126
997	9 71		DCW	10221		I 3	3648		126
998	9 72		DCW	15 1	EXIT 5	I 3	3651		126
999	9 73		DCW	10231		I 3	3654		126
1000	9 74		DCW	16	EXIT 6	1 3	3657		126
1001	9 75		DCW	10241		I 3	3660		126

SEQ PG LIN	LABEL	OP	OPERANDS					SFX	CT	LOCN	INSTRUCTION TYPE	CARD
1002 9 76		DCW	17 1				EXIT 7	I	3	3663	·	126
1002 9 77		DCW	1025					ī	3	3666		127
1004 9 78	EXITB	DCW	18				EXIT 8	Ī	3	3669		127
1005 9 79	LATIO	DCW	111					Ī	1	3670		127
1006 9 80		DCW	10271					Ī	3	3673		127
1007 9 81		DCW	17291				729	ī	3	3676		127
1008 9 82		DCW	10281					Ī	3	3679		127
1009 9 83	DRITB	DCW	17331				7330	Ī	3	3682		127
1010 9 84	0	DCW	111				,,,,,	Ī	1	3683		128
1011 9 85		DCW	10291					Ī	3	3686		128
1012 9 86		DCW	'NOR'				NO RWED	Ī	3	3689		128
1013 9 87		DCW	'030'					Ī	3	3692		128
1014 9 88	RWDTB	DCW	'UNL'				UNLOAD	I	3	3695		128
1015 9 89		DCW	111				•	I	1	3696		128
1016 9 90		DCW	10371					I	3	3699		128
1017 9 91		DCW	'REC'				RECORD	I	3	3702		129
1018 9 92		DCW	10381					1	3	3705		129
1019 9 93	COUTB	DCW	'HAS'				HASH	I	3	3708		129
1020 9 94		DCW	111					I	1	3709		129
1021 9 95		DCW	10341					1	3	3712		129
1022 9 96		DCW	'CLE'					1	3	3715		129
1023 9 97		DCW	10331					I	3	3718		129
1024 9 98		DCW	'PRO'					1	3	3721		130
1025 9 99		DCW	10321					I	3	3724		130
1026 10 00	REATB	DCW	'SCA'					I	3	3727		130
1027 10 01	#											
1028 10 02	#		DTF T	ABLE	OF	LABELS						
1029 10 03	*											
1030 10 04		DCW	111					1	1	3728		130
1031 10 05		DCW	OVE*			OVERFLO		I	3	3731		130
1032 10 06		DCW	*FOR*			FORMSCN	TL	I	3	3734		130
1033 10 07		DCW	'COB'			COBOL		I	3	3737		130
1034 10 08		DCW	'VAR'			VARBUIL		I	3	3740		131
1035 10 09		DCW	'CHA'			CHANDRI		I	3	3743		131
1036 10 10		DCW	'FIL'			FILETYP	E	I	3	3746		131
1037 10 11		DCW	'MOD'			MODEPAR		I	3	3749		131
1038 10 12		DCW	'CAR'			CARDROC		Ī	3	3752		131
1039 10 13		DCW	'ALT'			ALTTAPE		i	3	3755		131
1040 10 14		DCW	'REC'			RECFORM		I	3	3758		131
1041 10 15		DCW	'SIZ'			SIZEREC		i	3	3761		132
1042 10 16		DCW	'PAD'			PADDING	•	i	3	3764		132
1043 10 17		DCW	·BLO·			BLOCKSI	ZE	1	3	3767		132
1044 10 18		DCW	'ICA'			IOAREAS	A	į. T	<i>5</i>	3770		132
1045 10 19		DCW	'WOR'			WORKARE		Į. T)	3773		132
1046 10 20		DCW	'IND'			INDEXRE	L	i. T	2	3776		132
1047 10 21		DCW	*EOF *			EOFADDR		Į. T	3	3779		132 133
1048 10 22		DCM	'WLR'			WLRADDR		I T	3	3782		133
1049 10 23		DCW	'TOT'			TOTALS	C1	Į.	3	3785 3788		133
1050 10 24		DCM	'TYP'			TYPELABI		A T	<i>3</i>	3791		133
1051 10 25		DCW	'CHE'			CHECKLA	DCL	1	2	217		133

SEQ PG LIN	LABEL	OP	OPERANDS		SFX	CT	LOCN	INSTRUCTION TYP	E	CARD
1052 10 26		DCW	*HEA*	HEADER	T	3	3794			133
1052 10 28		DCW	*SER*	SERIALNUM	Ī	3	3797			133
1054 10 28		DCW	*REE*	REELSEQ	Ī	3	3800			133
1054 10 28	DTFLAB		*REW*	REWIND	Ī	3	3803			134
1056 10 30	#	DCW	. KEW.	REWIND	•	,	7007			LJT
1056 10 30	*									
1057 10 31	*		LABEL TABLE						-	
1058 10 32	*		CADEL TADEL							
1060 10 34	*	DCW	111		T.	1	3804			134
1061 10 35		DCW	'TAP'	TAPEUSE	i	3	3807			134
1062 10 36		DCW	'CHE'	CHECKPOINT	î	3	3810			134
1062 10 30		DCW	*DIO*	DIOCSORG	Ī	3	3813			134
1064 10 38		DCW	'FEA'	FEATURES	ī	3	3816			134
1065 10 39		DCW	*100*	IODEVICES	ī	3	3819			134
1066 10 40		DCW	'LAB'	LABELDEF	Ī	3	3822			135
1067 10 41		DCW	'ALT'	ALTTAPE	Ī	3	3825			135
1068 10 42		DCW	*EXI*	EXITS	ī	3	3828			135
1069 10 43		DCW	'VAR'	VARBUILD	Ī	3	3831			135
1070 10 44		DCW	'COU'	COUNTS	Ī	3	3834			135
1071 10 45		DCW	DRI*	DRIVETYPE	Ī	3	3837			135
1072 10 46		DCW	*RWD*	RWDOPTION	Ī	3	3840			135
1073 10 47		DCW	*REA*	READERROR	Ī	3	3843			136
1074 10 48	LBLTBL		INP!	INPEXNO	I	3	3846			136
1075 10 49		LTORG	*		I			3847		
		DCW	*EX*		I	2	3848	LIT	•	136
			171		I	1	3849	LIT		136
			11 81		I	3	3852	LIT	•	136
			151		I	1	3853	LIT		136
			1 1		I	1	3854	LIT	•	136
			1 & 1		1	1	3855	LIT	•	137
			151		I	1	3856	LIT	•	137
643			*55555*		I	5	3861	LIT	•	137
			1+1		I	1	3862	LIT	•	137
652	SAVXL1		=03		I	3	3865	ARE	Α	137
			1, 1		I	2	3867	LIT		137
			1 1		I	2	3869	LIT		137
			111		I	1	3870	LIT		138
			161		I	1	3871	LIT		138
685			•		I	5	3876	LIT		138
			'DTF'		I	3	3879	LIT		138
696			'33333 '		I	5	3884	LIT		138
			1521		I	2	3886	LIT		138
731	SAVX2		=03		I	3	3889	ARE		138
			'ALT'		Ī	3	3892	LIT		139
			JOB		1	3	3895	LIT		139
			'CTL'		I	3	3898	LIT		139
802	HLDA1		=04		I	4	3902	ARE		139
806	BALTR		=01		i	1	3903	ARE		139
814	HLCB		=04		1	4	3907	ARE		139
			• N •		I	1	3908	LIT		139

								,
SEQ PG LIN	LABEL OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
852	XCARDS	=01	I	1	3909		AREA	140
870	READS	=01	I	1	3910		AREA	140
1076 10 50	*							
1077 10 51	#	OUTPUT AREA						
1078 10 52	*							
1079 10 53	ORG	3912	1			3912		
1080 10 54	CUTPT DA	1X86,G	I		3912	399 7		140
	DCW	1 1	I	1	3998		GMARK	141
1081 10 55	LOPUT EQU	*	Ī	_	3998			- · -
1082 10 56	EX		Ī			B 000		142

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1132 11 06

DCW

SFX CT LOCN INSTRUCTION TYPE CARD SEQ PG LIN LABEL OP OPERANDS 1401 AUTOCODER-PASS 2-COPY DTF TABLE -VERSION 3 JOB 1083 10 57 1084 10 58 SFX Í 0341 1085 10 59 I 145 1 0341 1086 10 60 EXITS YES I 1 0342 145 1087 10 61 1 INPUT
2 OUTPUT
3 TAPE
4 READER 4
5 PUNCH 5
6 PRINTER 6
7 LOAD 7 MODEPA.
8 CHECKPOINT 8 FEATURES
9 NUMBER 9 CHANDRIVE
10 NUMBER 10 CARDPOC I
11 NUMBER 11 ALTTAPE I 1
12 BLOCKED 12 RECFORM I 1 0362
11 AUSLOCKED 13 I 1 0363
11 MISSIOCKED 13 I 1 0363
11 MISSIOCKED 13 I 1 0363
11 SYARIABLE 15 I 1 03664
11 I O MUMBER 16 SIZEREC I 4 0368
11 I O MUMBER 17 PADDING I 1 0367
12 20 NUMBER 17 PADDING I 1 0367
12 21-24 NUMBER 18 BLOCKSIZE I 4 037
12 25-34 LABEL 19 IOAREAS I 10 07
135-44 20 I I O 7
145-54 LABEL 21 WORKAREA I 10
15 NUMBER 22 INDEXREG I 1
16 SIZEREC I 4 037
16 SIZEREC I 4 0368
17 PADDING I 1 0367
18 SIZEREC I 4 037
19 SIZEREC I 4 0368
10 O 7
10 SIZEREC I 4 037
10 SIZEREC I 4 037
10 SIZEREC I 4 037
11 O 7
12 SIZEREC I 4 037
11 O 7
12 SIZEREC I 4 037
12 SIZEREC I 4 037
13 SIZEREC I 4 037
14 SIZEREC I 4 037
15 SIZEREC I 4 037
16 SIZEREC I 4 0368
17 SIZEREC I 4 037
18 SIZEREC I 4 037
19 SIZEREC I 4 037
10 SIZEREC I 4 037
10 SIZEREC I 4 0368
11 O 7
12 SIZEREC I 1 1 0 7
12 SIZEREC I 1 COBOL YES I 1 0343 145 1088 10 62 1089 10 63 I 6 0349 145 1090 10 64 1091 10 65 1092 10 66 1093 10 67 146 1094 10 68 146 1095 10 69 146 1096 10 70 146 1097 10 71 1098 10 72 146 146 1099 10 73 147 1100 10 74 147 1101 10 75 147 1102 10 76 147 1103 10 77 147 1104 10 78 147 1105 10 79 1106 10 80 147 148 1107 10 81 1108 10 82 148 148 1109 10 83 148 1110 10 84 148 1111 10 85 149 1112 10 86 149 1113 10 87 149 1114 10 88 149 1115 10 89 149 1116 10 90 149 1117 10 91 149 1118 10 92 150 1119 10 93 I 1 0434 150 85 IDENT 31 1120 10 94 I 3 0437 150 1121 10 95 I 5 0442 150 1122 10 96 I 10 0452 150 1123 10 97 . 35 SERIALNUM 104-108 NUMBER I 5 0457 150 1124 10 98 109-118 119-128 150 109-118 39 EX1ADDR I 10 0467 1125 10 99 40 EX2ADDR 41 EX3ADDR 42 EX4ADDR 43 EX5ADDR 44 EX6ADDR 45 EX7ADDR 46 EX8ADDR I 10 0477 151 1126 11 00 129-138 1127 11 01 I 10 0487 151 1 139-148 I 10 0497 151 1128 11 02 149-158 159-168 169-178 DCW . 1129 11 03 I 10 0507 152 DCW DCW I 10 0517 152 1130 11 04 I 10 0527 152 1131 11 05

SEQ PG LIN LABEL	OP	OPERANDS					SFX	CT	LOCN	INSTRUCTION TYPE	CARD
1133 11 07	DCW	•	189-	198	47	VARBUILD	1	10	0547		153
1134 11 08	DCW	1 1	199	UNLOAD	37	REWIND	I	1	0548		153
1135 11 09	DCW	1 1	200	NOREWD	38		1	1	0549		153
1136 11 10	DCW	1 1	9	201		OVERFLOW	I	1	0550		153
1137 11 11	DCW	1 1	12	202			I	1	0551		153
1138 11 12	DCW	1 1	203-	205 NUMBER		REELSEQ	I	3	0554		153
1139 11 13	DCW	1 1		206		FORMCNTL	I	1	0555		154
1140 11 14	DCW	=9					I	9	0564		154
1141 11 15	DCW	1 1	216	ADDRESS		OVERFLOW	I	1	0565		154
1142 11 16	DCW	1 1					I	1	0566		154
1143 11 17	DCW	1 1					I	1	0567		154
1144 11 18 DTFGM	DCW	1 1					I	1	0568		154

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1401 AUTOCODER-PASS 2-COPY DTF TABLE -VERSION 3

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ΕX

SEQ	PG	LIN	LABEL	OP	OPERANDS		SFX C1	LO	N I	NSTRUCTION	TYPE	CARD
1146	11	20		JOB	1401 AUTOCODER-PASS 2-ALTER OVERLAY -VER	SION 3						
1147				SFX	I							
1148	11	22		ORG	101		I			0101		
1149	11	23	끂									
1150	11	24	#									
1151			*		CTL CARD ON TAPE 4							
1152			*									
1153			PUNCH	CW	GMOVL2		I 4	01)1)	332		158
1154				BSP	1		1 5	01)5 L	(U1 B		158
1155	11	29		BSP	1		I 5	01	.0 U	(U1 B		158
1156				В	ALTER		1 4	01	.5 8	P63		158
1157	11	31	OUTCL	MCW	OUTPT+85,LMAINX		1	01	.9 M	197 086		158
1158	11	32		BSS	PREPS2,C		1 5	01	26 B	662 C		158
1159	11	33	NOSOL	SBR	RSOLV+7, NOALTB		I 7	01	31 H	182 Q20		158
1160	11	34	#									
1161	11	35	*		CTL CARD FROM CARDS							
1162	11	36	*									
1163	11	37	CRDCL	BCE	LEAVE, MAINX+23, 1		1 8			167 024 1		159
1164	11	38		MN	MAINX+21,*+8		I 7			022 160		159
1165	11	39		BCE	LEAVE, '456',		I 8	01	3 B	167 237		159
1166	11	40		CHAIN	2						MACRO	
1167				BCE			I			•	GEN	159
1168				BCE			I 1			•	GEN	159
1169	11	41		В	LETBE		1 4	01	3 B	171		159
1170	11	42	LEAVE	S	SPECL		I 4	01	57 S	337		159
1171	11	43	LETBE	В	NOPCL		I 4			183		160
1172	11	44	RSOLV	В	WRTREC		1 4			721		160
1173	11	45		В	WRTAL		1 4	01	'9 B	+37		160
1174	11	46	*									
1175	11	47	NOPCL	SBR	NPCLX+3		I 4			204		160
1176	11	48		MCW	'N',ALTS2		I 7			238 Q67		160
1177	11	49		MCW	'N', ALTS4		I			238 +82		160
1178			NPCLX	В	0		I 4			000		160
1179			NOPJB	SBR	NPJBX+3		I 4			219		161
1180				SW	ALTS1+4, ALTS3+4		I			Q51 +66		161
1181				В	0		I 4	02		000		161
1182			NOTER	MCW	OUTPT+85,LMAINX		I	02		197 086		161
1183				В	WRTREC		I 4			721		161
1184			CHUCK	В	NOALTB		I 4	02		Q20		161
1185	11	57		LTORG			I			0235		
				DCW	14561			02			LIT	161
					N		Ţ	02	8		LIT	162
1186				ORG	246		i			0246		1.0
1187				DA	1X86		i	024		0331		162
1188			AREASV		*		i .	03				1.0
1189			GMOVL2		1 1		1 1	03		000		163
1190	11	62		EX			ı		B	000		164

1401 AUTOCODER-PASS 2-ALTER OVERLAY

SEQ PG LIN	LABEL	OP	OPERANDS	SFX	СТ	LOCN	INSTRUCTION TYPE	CARD
1191 11 63		JOB	1401 AUTOCODER - PASS 2 - END OVERLAY - VERSION	3				
1192 11 64		SFX	I					
1193 11 65		ORG	341	I			0341	
1194 11 66	OVLY3	MN	151,TDF6+4	I	7	0341	D 432 768	167
1195 11 73		SBR	LONG+3, 'N'	I	7	0348	H J60 433	167
1196 11 74		LCA	186, LMAINX	Ī	7	0355	L 186 086	167
1197 11 75		В	NEWWRT	I	4	0362	B J35	167
1198 11 76		CW	OUTPT+80	Ī	4	0366) 192	167
1199 11 77		SW	GMOVL4	Ī	4	0370	, 606	167
1200 11 78		MCW	GMWMRK,GMGVL4	Ī	7	0374	M 773 606	168
1201 11 79		В	CTAPE	Ī	4	0381	B S22	168
1202 11 80		NOP	TDF9	Ī	4	0385	N 412	168
1203 11 81		CW	GMOVL4	Ī	4	0389) 606	168
1204 11 82		RWD	5	Ī	5	0393	U (U5 R	168
1205 11 83		В	CTAPE	ī	4	0398	B \$22	168
1206 11 84		NOP	TDFSYS	Ī	4	0402	N 423	168
1207 11 85		В	1900	Ī	4	0406	B Z00	169
1208 11 86	TDF9	DCW	=3	ī	3	0412		169
1209 11 87	,,,	WTW	5,0VLY4	Ī	8	0413	L (U5 434 W	169
1210 11 88	TDFSYS		=3	ī	3	0423	2 (0) .5	169
1211 11 89	101313	RTW	1,1650	Ť	8	0424	L (U1 W50 R	169
1212 11 92	*			-				
1213 11 93	-	LTORG	•	I			0432	
		DCW	151	ī	1	0432	LIT	169
		0011	INI	ī	ī	0433	LIT	169
1214 11 94	OVLY4	EQU	*+1	ī	•	0434		,
1215 11 95	01211	SFX	X	-				
1216 11 96	* E		и̂ов					
1217 11 97	*	.,,						
1218 11 98		С	CALLTX,BLANKS-2	Х	7	0434	C -73 W14	170
1219 11 99		BE	STENDX	X	5	0441	B 450 S	170
1220 12 00		В	SUREXX	X	4	0446	B T08	170
1221 12 01	STENDX		SBROTX	X	4	0450	B 033	170
1222 12 02	3.2	RWD	5	X	5	0454	U (U5 R	170
1223 12 03		BSP	1	X	5		U (U1 B	170
1224 12 04		BSP	ī	Х	5	0464	U (U1 B	170
1225 12 05		WTM	6	X	5	0469	U (U6 M	171
1226 12 06		RWD	6	X	5	0474	U 1U6 R	171
1227 12 07		MCW	SYMNMX, MAINX+2	X	7	0479	M W01 003	171
1228 12 08		LCA	LOPUT+1, MAINX+35	Х	7	0486	L 198 036	171
1229 12 09		WT	5, MAINX	X	8	0493	M (U5 001 W	171
1230 12 10		WTM	5	X	5	0501	U (U5 M	171
1231 12 11		RWD	4	X	5	0506	U (U4 R	172
1232 12 12		CW	LIPUT+1, MAINX+35	X	7	0511) 187 036	172
1233 12 13		CW	100	X	4	0518) 100	172
1234 12 14	BYPASX		1,3997	X	8	0522	M (U1 197 R	172
1235 12 15	- · · · · · · · · · · · · · · · · · · ·	SW	LOPUT+1	X	4	0530	, 198	172
1236 12 16		BEF	CBSP2X	X	5	0534	B 543 K	172
1237 12 17		В	BYPASX	X	4	0539	B 522	172
1238 12 18	CBSP2X		1,3997	X	8	0543	M (U1 197 R	173
		- -			_			-

SEQ PG LIN	LABEL OP	OPERANDS	SFX	СТ	LOCN	INSTRUCTION TYPE	CARD
1239 12 19	SW	LOPUT+1	χ	4	0551	• I98	173
1240 12 20	S	+1,CBSP1X	X	7	0555	S 605 604	173
1241 12 21	ВМ	CBSP3X,CBSP1X	X	8	0562	V 574 604 K	173
	В		X	_		B 543	173
1242 12 22	_	CBSP2X	^	. 4	0570	0 243	113
1243 12 23	*						
1244 12 24	* LOAD PASS	THREE					
1245 12 25	#						
1246 12 26	CBSP3X CS	PARTB	Х	4	0574	/ 466	173
1247 12 27	CS		X	1	0578	1	173
1248 12 28	ČS		X	i	0579	•,	
				ı		7	174
1249 12 29	В	CTAPE	Х	4	0580	B W50	174
1250 12 30	NOP	TDFEOJ	Х	4	0584	N 594	174
1251 12 31	В	2465	Х	4	0588	B M65	174
1252 12 32	TDFEOJ DCW	+CCHALT	Х	3	0594	Y34	174
1253 12 33	RTW	1,2210	x	8	0595	L (U1 K10 R	174
				2		E TOT KTO K	
1254 12 34	CBSP1X DCW	1111	X	2	0604		174
1255 12 35	*						
1256 12 36	LTORG	잘	X			0605	
	DCW	+1	Х	1	0605	LIT	175
1257 12 37	GMOVL4 DCW	1 1	Х	1	0606		175
1258 12 38	EX		x	-		В 000	176
1230 12 30	LA		^			5 000	110

SEQ PG LIN	LABEL OF	P (OPERANDS					SFX	СТ	LOCN	INSTRUCTION	TYPE	CARD
1259 12 39	10	OB .	1401 AUTO	nconer - PA	100 2 - ALTE	ER ASSEMBLY	- VERSION	3					
1260 12 40	*	uu ,	1401 HOT	JCOBER 1 A	133 2 ACT	LIC ASSCRIBET	VERSION .	,					
1261 12 41		DEFI	NITIONS										
1262 12 42	*	<i>U</i>	111 7 1 0 110										
1263 12 43		FX I	В										
1264 12 44			i 1					В			0001		
1265 12 45	D.A		1X86	MAIN				В		0001	0086		179
1266 12 46			*	LMAIN				В		0086			•.,
1267 12 47			87	C11/2/1				В			0087		
1268 12 48			000	INCEX1				В	3	0089			179
1269 12 49	DC		00	1110271				В	2	0091			179
1270 12 50	DO		000	INDEX2				В	3	0094			179
1271 12 51	DC		00	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				В	2	0096			179
1272 12 52			000	INDEX3				В	3	0099			179
1273 12 53	DC		00	2.100.113				В	2	0101			179
1274 12 54	OF		100					В	_		0100		
1275 12 55	D.C		1 1					В	1	0100			180
1276 12 56	DA		1X86	INPUT				В	-	0101	0186		180
1277 12 57	DC		1 1	LIPUT+1				B	1	0187	0.200		181
1278 12 58	DC		0	ZEROX				В	ī	0188			181
1279 12 59	DC		Ö	CARDSX				В	ī	0189			181
1280 12 60			1***1	HLDSBX				8	3	0192			181
1281 12 61	*	C #4		11LUJUN				•	-	02,0			
1282 12 62	*	INT	TIALIZAT	TON									
1283 12 63	*	414.4	11761671	1011									
1284 12 64		RG	101					В			0101		
1285 12 65	VOICE CS		CALLTX					В	4	0101	/ -73		182
1286 12 66	CS		CALLIA					В	1	0105	1		182
1287 12 67	IOCALT CS		LMAINX					В	4	0106	/ 086		182
1288 12 68	B		CTAPEX					В	4	0110	B W50		182
1289 12 69			TDF105					В	4	0114	N 132		182
1290 12 70				AINXX+73,N				В	8	0118	B 141 074 N		182
1291 12 71	В		YOURS	1111/1/1/2011				В	4	0126	B 541		182
1292 12 72	TDF105 DC		+IOCEOF					В	3	0132	141		183
1293 12 73	R1		5, MAINXX					В	8	0133	M (U5 001 R		183
1294 12 74	IOCEOF MO		11 ,HAPP	VY+4				В	7	0141	M 172 N74		183
1295 12 75			1/0861	• • • •				В	4	0148	M 176		183
1296 12 76	В		OKAY					В	4	0152	B 467		183
1297 12 77	STRING CS		LMAINX					В	4	0156	/ 086		183
1298 12 78	B		CTAPEX					В	4	0160	B W50		183
1299 12 79			TDF105					8	4	0164	N 132		184
1300 12 80	В		HAPPYX+5					В	4	0168	B N75		184
1301 12 81		TORG						В	•		0172		
1301 12 01			111					В	1	0172		LIT	184
	<i>D</i> (1/0861					В	4	0176		LIT	184
1302 12 82	#		, 555					_	~				-7.
1302 12 82		METER	TABLE										
1304 12 84	* (A)A(In 1 In 1%					•						
1305 12 85		RG :	201					В			0201		
1306 12 86	D.A		1X266					В		0201	0466		184

SEQ	PG	LIN	LABEL	OP	OPERANDS		SFX	СТ	LOCN	INSTRUCTION	TYPE	CARD
1307	12	87			261,266 PARTBB		В		0466		FIELD	184
1308	12	88	*									
1309	12	89	*	PROCESS	EX							
1310	12	90	*									
1311			CKAY	SBR	SWITCH+3, CMALTB		В	7	0467	H L04 510		185
1312			EXSET	C	CALLTX, BLANKS-2	Q. ANY CALLS	В	7	0474	C -73 W14		185
1313				BE	PREEM		В	5	0481	B 506 S		185
1314			ATLSA	В	SUREXX		В	4	0486	B T08		185
1315				В	PREEM		В	4	0490	B 506		185
1316			LORGS	С	CALLTX, BLANKS-2	Q. ANY CALLS	В	7	0494	C -73 W14		185
1317				BU	HAULIT		В	5	0501	B S64 /		185
1318			PREEM	В	CARDS		В	4	0506	B 525		186
1319			*									
1320			*	INPUT I	ROUTINE							
1321			*									
1322	13	02	CMALT	BSS	LSTCD,C	Q. NO ALTERS	В	5	0510	B 686 C		186
1323	13	03		BSS	LSTCD, A	Q. NO MORE ALTERS	В	5	0515	B 686 A		186
1324				CS	LMAINX		В	4	0520	/ 086		186
1325				R			В	1	0524	1		186
1326			CARDS	SBR	PREEM+3,SBROTX		В	7	0525	H 509 033		186
1327	13	07		MCW	'SCR', CHARCR		В	7	0532	M +15 U62		186
1328				MCW			В	1	0539	М		187
1329				MCW			В	1	0540	M		187
1330	13	10	YOURS	C	MAINXX+17, 'ALT'		В	7	0541	C 018 +18		187
1331				BCE	TREAD, MAINXX+5, *		8 B	8	0548	B 697 006 *		187
1332				BU	TREAD		8	5	0556	B 697 /		187
1333	13	13		S	INDEX1+1		В	4	0561	S 090		187
1334				В	SCANXX		В	4	0565	B M19		187
1335				ZA	MAINXX+18+X1, HLDA1	=4	В	7	0569	+ 0/9 +22		188
1336			ALTR4	В	CTAPEX	GET NEXT RECORD	В	4	0576	B W50		188
1337				NOP	TDFRAL		В	4	0580	N 922		188
1338	13	18		MCW	'R',OUTPTX+84		В	7	0584	M #23 I96		188
1339	13	19		SW	LOPUTX+1		В	4	0591	• I98		188
1340				С	OUTPTX+83,HLDA1		В	7	0595	C 195 ‡22		188
1341	13	21	CALTR	BE	ALTR3	Q. ALTER NUMBER EQUAL TO	8	5	0602	B 631 S		188
1342	13	22		С	QUTPTX+17, END:	NUMBER ON ALTER CARD	8	7	0607	C I29 +26		189
1343	13	23		BE	ENDST	NO. WRITE TAPE	В	5	0614	B +02 S		189
1344				В	CTAPEX		В	4	0619	B W50		189
1345				NOP	TDF6 X		В	4	0623	N 024		189
1346	13	26		В	ALTR4		В	4	0627	B 576		189
1347	13	27	ALTR3	BCE	ALTR5, MAINXX+19+X1	. 1 1	В	8	0631	B 651 OSO ,		189
1348	13	28		В	CTAPEX	Q. DLEETION	8	4	0639	B W50		189
1349				NOP	TDF6 X		В	4	0643	N 024		190
1350	13	30		В	SWITCH		В	4	0647	B L01		190
1351	13	31	ALTR5	В	SCANXX		В	4	0651	B M19		190
1352	13	32		ZA	MAINXX+18+X1,HLDA1		В	7	0655	+ 0/9 +22		190
1353	13	33	ALTR6	C	OUTPTX+83,HLDA1		В	7	0662	C 195 ‡22		190
1354	13	34		BE	MACRO	DELETE UNTIL SECOND ALTER	В	5	0669	B 931 S		190
1355	13	35		В	CTAPEX	NUMBER IS REACHED	В	4	0674	B W50		190
1356	13	36		NOP	TDFRAL		В	4	0678	N 922		191

SEQ F	PG LIN	LABEL	OP	OPERANDS			SFX	CT	LOCN	INSTRUCTION TYPE	CARD
1000			0	ALTD/			n	,	0/00	D //2	101
1357		1 6760	В	ALTR6			В	4	0682	B 662	191
1358		LSTCD	MCW	'N',CALTR			8 8	7	0686	M ‡27 602 B 576	191
1359			В	ALTR4			D	4	0693	p 540	191
1360 1		*		MA IOD DOOCECCIMO							
1361 1		*		MAJOR PROCESSING							
1362 I 1363 I		* TREAD	CH	1			Ω	٨.	0697	, 001	191
1364		IKEAD	SW SBR	1 BRNCHX+3,SWITCH			8	4 7	0701	H 099 L01	191
1365			BCE	HOMEXX, MAINXX+5, *			D D	8	0708	B 048 006 *	191
1366			C	MAINXX+17, MLC			8 8 8 8 8	7	0716	C 018 +30	192
1367			BE	HOMEXX			a a	5	0723	B 048 S	192
1368			C	MAINXX+17, CHA			8	7	0728	C 018 +33	192
1369			BE	CHAINX			R	5	0735	B H11 S	192
1370			C	MAINXX+17, 'ENT'	۵.	ENTER CARD	Ř	7	0740	C 018 +36	192
1371			BE	ENTST	~ ~		B	5	0747	B 879 S	192
1372		SWMA1	C	MAINXX+17,*MA *	۵.	MODIFY ADDRESS MACRO	В В	7	0752	C 018 +39	193
1373		SWMA2	BE	MASETX			B	5	0759	B U33 S	193
1374		3111.1.Z	C	MAINXX+17,*EX *	۵.	EX CARD	8 8	7	0764	C 018 +42	193
1375			BE	EXSET	~ -		В	5	0771	B 474 S	193
1376			Č	MAINXX+17, 'END'	٥.	END CARD	В В	7	0776	C 018 ‡26	193
1377			BE	ENDSTX	-		В	5	0783	B U78 S	193
1378			C	MAINXX+18, WHOOPS	Q.	CALL STATEMENT	В В	7	0788	C 019 W05	194
1379			BE	CALLNX	•		В	5	0795	B J51 S	194
1380 1			C	MAINXX+19, INCLDX			8 8 8	7	0800	C 020 U59	194
1381 1			BE	CALLNX			В	5	0807	B J51 S	194
1382	13 62		С	MAINXX+19,LITORG-1				7	0812	C 020 T57	194
1383			BE	LORGS			B B B	5	0819	B 494 S	194
1384	13 64		SBR	INDEX3, TABLEI	Q.	GET, PUT, OPEN OR CLOSE	В	7	0824	H 099 T74	195
1385 1	13 65	COMICC	C	MAINXX+17,0+X3				7	0831	C 018 0+0	195
1386	13 66		SBR	INDEX3			В	4	0838	н 099	195
1387 1	13 67		BE	MSUBTX			8 B	5	0842	B P00 S	195
1388 1	13 68		BCE	OUTIOC,0+X3,=			В	8	0847	B 859 0+0 =	195
1389			В	COMICC			В	4	0855	B 831	195
1390 1	13 70	OUTIOC		HOMEXX, MAINXX+19,			В	8	0859	B 048 020	196
1391 1			BCE	HOMEXX, MAINXX+15,			8	8	0867	B 048 016	196
1392			В	MSUBTX	NO.	. MACRO	В	4	0875	B P00	196
1393 1		*									
1394			PROCES	SS FIXED FORM RECORD							
1395 1		#	_	2222					0		
1396		ENTST	В	SBROTX			В	4	0879	B 033	196
1397			R	CALTOT MARKWAY . 7			В	1	0883	1	196
1398			BCE	ENTST, MAINXX+7, *	_	END CADD	В	8	0884	B 879 008 *	196
1399 1			C	MAINXX+15, 'END'	4.	END CARD	В	7	0892	C 016 ‡26	197
1400			BE	ENDSTX	0	NEU MORE	В	5	0899	B U78 S	197
1401 1			C	MAINXX+15, ENT	₩.	NEW MODE	В	7	0904	C 016 ‡36	197
1402 1			BU	ENTST			В В	う 4	0911	B 879 /	197
1403 1		TOEDAI	B	PREEM			В		0916 0922	В 506	197 197
1404 I 1405 I		TDFRAL	DCW	000 'M(U4I12R'			В	3 8	0922		197
1405		*	UCM	PRUTIIZA			D	0	0730		171
1400 1	- 00	-									

SEQ PG LIN	LABEL OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
1407 13 87	* DELE	TE ENTIRE MACRO				
1408 13 88	*					
1409 13 89	MACRO BC	E OUTMC, OUTPTX+74, R	B 8		B 943 I86 R	198
1410 13 90	В	SWITCH	B 4	0939	B L01	198
1411 13 91	OUTMC B	CTAPEX	B 4	0943	B W50	198
1412 13 92	NO	P TDFRAL	В 4	0947	N 922	198
1413 13 93	С	OUTPTX+19,BLANKS	В 7	0951	C 131 W16	198
1414 13 94	MCOUT BE		В 5	0958	B 943 S	198
1415 13 95	MC	W 'N', MCOUT	8 7	0963	M ‡27 958	198
1416 13 96	ВС		В 8	0970	B 943 I86 S	199
1417 13 97	BC	·	В	0978	B 943 I86 C	199
1418 13 98	BS		В		U (U4 B	199
1419 13 99	MC		В 7	0991	M 943 958	199
1420 14 00	В	CMALT	8 4		B 510	199
1421 14 01	a a	W1177-W1				
1422 14 02		SS END CARD				
1423 14 03	*	OG LIJD ONKD				
1424 14 04	ENDST MC	W LOPUTX, LMAINX	в 7	1002	M 197 086	199
1425 14 05	В	ENDSTX	B 4		B U78	200
1426 14 06		ORG *	8	100,	1013	200
1420 14 00	DC		В 3	1015	LIT	200
	DC	'ALT'	B 3		LIT	200
1335	HLDA1	=04	B 4		AREA	200
1333	HLUAI	1R1	8 1		LIT	200
		END	B 3		LIT	200
		• N •	B 1		LIT	200
			B 3		LIT	201
		MLC			LIT	201
		'CHA'				
		'ENT'	8 3		LIT	201
		'MA '	8 3		LIT	201
		'EX '	8 3		LIT	201
1427 14 07	GM2XXX DC		B 1			201
1428 14 08	NUCRIG EQ		В	1044	2.000	200
1429 14 09	EX		В		В 000	202

SEQ PG LIN	LABEL	OP	OPERANDS			SFX	CT	LOCN	INSTRUCTION T	YPE	CARD
1/20 1/ 10		100	1401 AUTOCODED - 1	DACC O TAITTTAI	ACCEMBLY VEDCION	2					
1430 14 10		JOB	1401 AUTOCODER - I	PASS 2 - INITIAL	ASSEMBLY VEKSION	2					
1431 14 11 1432 14 12	*	ADE	A DEFINITION								
1432 14 12	*	AND	A DEFINITION								
1434 14 14	•	SFX	A								
1435 14 15		ORG	1			Α			0001		
1436 14 16	MAINXX		1X86			Ä		0001	0086		205
1437 14 17	PATHAN	ORG	87			Ā		0001	0087		200
1438 14 18		DCW	10001			Ā	3	0089	0001		205
1439 14 19		DC	00			A	2	0091			205
1440 14 20		DCW	10001			A	3	0094			205
1441 14 21		DC	00			A	2	0096			205
1442 14 22		DCW	10001			A	3	0099			205
1443 14 23		DC	00			A	2	0101			205
1444 14 24		ORG	101			Α		_	0101		
1445 14 25		DA		PUTX		Α		0101	0186		205
1446 14 26	LIPUTX		#			A		0186			
1447 14 27		DC	1 1			Α	1	0187			206
1448 14 28	ZEROXX		0			Α	1	0188			206
1449 14 29	CARDSX		0			A	1	0189			206
1450 14 30	HLDSBX	DCW	* * * *			A	3	0192			206
1451 14 31	*										
1452 14 32	* IN	VITIAL	IZATION								
1453 14 33	*										
1454 14 34		ORG	100			Α			0100		
1455 14 35		DC	1 1			A	1	0100			207
1456 14 36	START	CS	CALLTX			Α	4	0101	/ -73		207
1457 14 37		CS				A	1	0105	1		207
1458 14 371		BCE	*+5,CARDSX,1			A	8	0106	B 118 189 1		207
1459 14 372		В	RED			Α	4	0114	B 132		207
1460 14 373		MCW	'N',RHO+1			Α	7	0118	M 959 764		208
1461 14 374		MCW	'N',TSTEN+5			Α	7	0125	M 959 780		208
1462 14 380	RED	SW	NTPER+4			A	4	0132	, 885		208
1463 14 39		SW	TSTEN+4			Α	4	0136	, 779		208
1464 14 40		SW	OUTS2+4			A	4	0140	, 762		208
1465 14 41		BCE	READT, IOCSAV-3,*			A	8	0144	B 467 H07 *		208
1466 14 42		MCW	'N' , SWMA1			A	7	0152	M 959 526		209
1467 14 43		MCW	'N' SWMA2			A	•	0159	M 959 533		209
1468 14 44		В	READT			A	4	0166	B 467		209
1469 14 45		ORG	201			A		0001	0201		200
1470 14 46		DA	1X266			A		0201	0466	T = 1 = 0	209
1471 14 47	PARTBX		261,266			A		0466	r	IELD	209
1472 14 48	# M A	100 00	OCECCINO								
1473 14 49	* MA	JUK PK	OCESSING								
1474 14 50	# DCADT	0	THEOD	CET MEYT DECCORD		A	1.	0447	0 452		210
1475 14 51		B	TWEDB	GET NEXT RECORD		A	4	0467 0471	8 653 , 001		210 210
1476 14 52	TREAD	SW	DONCHY12 DEADT			A A	4	0471	H 099 467		210
1477 14 53 1478 14 54		SBR BCE	BRNCHX+3,READT OUTS2,MAINXX+5,*	Q. COMMENTS CAR	n	A	ά	0473	B 758 006 *		210
1478 14 54		C	MAINXX+19, CHAIN	W. COMMENIA CAR	J	A	7	0492	C 020 964		210
7112 YT 77		J	THE THAT IS A CHESTIA.			~	•	U 1 / U	0 020 704		

1401 AUTOCODER - PASS 2 - INITIAL ASSEMBLY VERSION 3

SEQ	PG	LIN	LABEL	OP	OPERANDS			SFX	CT	LOCN	INSTRUCTION TYPE	CARD
1480	14	56		BE	CHAINX			A	5	0497	В н11 S	210
1481				C	MAINXX+19, MLCWA			A	7	0502	C 020 969	211
1482				BE	OUTS2			Ā	5	0509	B 758 S	211
1483				C	MAINXX+17, ENT	۵.	ENTER CARD	A	7	0514	C 018 972	211
1484				BE	ENTST			A	5	0521	B 795 S	211
1485			SWMAI	C	MAINXX+19, MA	۵.	MODIFY ADDRESS MACRO	A	7	0526	C 020 977	211
1486			SWMA2	BE	MASETX	•		A		0533	B U33 S	211
1487			J	Č	MAINXX+19, EX	۵.	EX CARD	A	7	0538	C 020 982	212
1488				BE	EXSET			A	5	0545	B 857 S	212
1489				Č	MAINXX+17, 'END'	٥.	END CARD	Α	7	0550	C 018 985	212
1490				BE	ENDSTX	٦-		Α	5	0557	B U78 S	212
1491				Č	MAINXX+18,WHOOPS			A	7	0562	C 019 W05	212
1492				BE	CALLNX	Q.	CALL STATEMENT	Α	5	0569	B J51 S	212
1493				Č	MAINXX+19, INCLDX	-		Α	7	0574	C 020 U59	213
1494				BE	CALLNX			A	5	0581	B J51 S	213
1495				Ċ	MAINXX+19, LTORG			Α	7	0586	C 020 990	213
1496				BE	LORGS	۵.	LTORG CARD	Α	5	0593	B 918 S	213
1497				SBR	INDEX3, TABLEI			A	7	0598	H 099 T74	213
1498			FEW	C	MAINXX+17,0+X3			Α	7	0605	C 018 0+0	213
1499				SBR	INDEX3			Α	4	0612	H 099	214
1500				BE	MSUBTX			Α	5	0616	B P00 S	214
1501				BCE	MANY,0+X3,=			Α	8	0621	B 633 0+0 =	214
1502				В	FEW			A	4	0629	B 605	214
1503			MANY	BCE	OUTS2, MAINXX+19,			Α	8	0633	B 758 020	214
1504				BCE	OUTS2, MAINXX+15,			Α	8	0641	B 758 016	214
1505				В	MSUBTX	NO.	. MACRO	Α	4	0649	B P00	215
1506			*									
1507			*	INPUT	ROUTINE							
1508			*									
1509			TWEDB	SBR	TWDB1+3			Α	4	0653	H 696	215
1510				CS	LMAINX			Α	4	0657	/ 086	215
1511				8	RTWED			Α	4	0661	B 677	215
1512	14	88	CHART	C				Α	1	0665	C	215
1513	14	89		BSS	EOF4,A	Q.	LAST CARD	Α	5	0666	B 934 A	215
1514	14	90		R				Α	1	0671	1	215
1515				SSB	TWDB1,1			Α	5	0672	K 693 1	216
1516			RTWED	В	CTAPEX			Α	4	0677	B W50	216
1517	14	93		NOP	TDF4			Α	4	0681	N 699	216
1518	14	94		BCE	CHANGE, MAINXX+73, N			Α	8	0685	B 708 074 N	216
1519	14	95	TWDB1	В	TREAD			Α	4	0693	B 471	216
1520	14	96	TDF4	DCW	+EOF4			Α	3	0699	934	216
1521	14	97		DCW	'M(U5001R'			Α	8	0707		216
1522			CHANGE	CW	CHART, TSTEN+4			A	7	0708) 665 779	217
1523				MN	'4',TDF4+4			A	7	0715	D 991 703	217
1524				CW	OUTS2+4,NTPER+4			Α	7	0722) 762 885	217
1525				С	CALLTX, BLANK			Α	7	0729	C -73 999	217
1526				ВE	HOOHA			A	5	0736	B 745 S	217
1527				В	SUREXX			A	4	0741	B T08	217
1528			HOOHA	MCW	SCR , CHARCR			A	7	0745	M 994 U62	218
1529	15	05		MCW				A	1	0752	М	218

SEQ PG L	N LABEL	OP.	OPERANDS				SFX	CT	LOCN	INSTR	UCTION TYPE	CARD
1530 15 06		MCW					Α	1	0753			218
1531 15 07		В	TWDB1				Α	4	0754	B 693		218
1532 15 08	*											
1533 15 09	*	READ R	ELEASE									
1534 15 10												
1535 15 11		BSS	OUTSBX,C	Q. TAI	PE INPUT		A	5	0758	B 041	ε	218
1536 15 12		NOP	33.35/43	4.			A	ī	0763	N	•	218
1537 15 13		MCW	*8*,RHO				Ā	7	0764	M 995	763	218
		В	OUTSBX				Â	4	0771	B 041		219
1538 15 14		D	UUISBA				A	7	0111	0 071		217
1539 15 15		- 1 V - 0 -	OD W DECOODS									
1540 15 16		LIXED L	ORM RECORDS									
1541 15 17								_				
1542 15 18			ENTST,C		PE INPUT		A	5	0775	B 795	· C	219
1543 15 19		SRF		NO. ST	TART RAD	FEED	Α	1	0780	8		219
1544 15 20		SBR	NOSIR+3, ANTST				Α	7	0781	H 917		219
1545 15 21		MCW	'N',BUT1XX				Α	7	0788	M 959	037	219
1546 15 22		В	SBROTX				Α	4	0795	B 033		219
1547 15 23		В	TWEDB				Α	4	0799	B 653		219
1548 15 24			'B',BUT1XX				A	7	0803	M 996		220
1549 15 25		SBR	NOSIR+3, TREAD				A	7	0810	H 917		220
		BCE	TSTEN, MAINXX+7, *				A	8	0817		008 *	220
1550 15 26				0 EN	CADO					C 016		
1551 15 27		C	MAINXX+15, END	M. EIAI	CARD		A	7	0825			220
1552 15 28		BE	ENDSTX				A	5	0832	B U78		220
1553 15 29		С	MAINXX+15, "ENT"	Q. NEI	N MODE		Α	7	0837	C 016		221
1554 15 30		BU	TSTEN				Α	5	0844	B 775		221
1555 15 31		В	SBROTX				Α	4	0849	8 033		221
1556 15 32		В	READT				Α	4	0853	B 467		221
1557 15 33												
1558 15 34		PROCESS	FX									
1559 15 39												
1560 15 36		С	CALLTX, BLANK=3	O. ANY	CALLS		Α	7	0857	C -73	999	221
		BE	OUTS2	We MIT	UNLLS		Â	5	0864	B 758		221
1561 15 37								4	0869	B T08		221
1562 15 38		В	SUREXX				A					
1563 15 39		В	SBROTX				A	4	0873	B 033		222
1564 15 40		В	READT				Α	4	0877	B 46/		222
1565 15 41												
1566 15 42	*	READ RE	LEASE REDUNDANCY RO	UTINE								
1567 15 43	*											
1568 15 44	NTPER	R BSS	YESIR,C	Q. TAI	PE INPUT		Α	5	0881	B 896	C	222
1569 15 45		R					A	1	0886	1		222
1570 15 46		SS	1				Α	2	0887	K 1		222
1571 15 47		MCW	N',RHO				A	7	0889	M 959	763	222
1572 15 48			COMETS+3, CRWRED				Ā	7	0896	H X65		222
1573 15 49		SBR	CCONPR+3, NOSIR				٨	7	0903	H X70		223
							,	4	0910	B X71		223
1574 15 50		В	CRWRED				A					
1575 15 51		R B	TREAD				Α	4	0914	B 471		223
1576 15 52												
1577 15 53		PROCES	S LTORG									
1578 15 54												
1579 15 59	LORGS	S C	CALLTX, BLANK	Q. ANY	CALLS		A	7	0918	C -73	999	223

7 1130 M W16 W19

229

SEQ	PG LIN	LABEL	OP	OPERANDS		SFX	CT	LOCN	INSTRUCTION TYPE	CARD
1580	15 56		₿U	HAULIT		À	5	0925	B S64 /	223
	15 57		В	OUTS2		A	4	0930	B 758	223
	15 58	EOF4	Č S	LMAINX		A	4	0934	/ 086	223
	15 59	20. ,	SW	1	•	A	4	0938	, 001	224
	15 60		MCW	*END\$\$\$*,MAINXX+18		Ā	7	0942	M +05 019	224
	15 61		В	ENDSTX		Â	4	0949	B U78	224
	15 62	ANTPER	and the second of the second	+NTPERA		Ä	3	0955	881	224
	15 63	ACRWED		+CRWRED		A	3	0958	X71	224
	15 64	AUNALD	LTORG			Ā		372.0	0959	
1300	1, 0,		DCW	a M a		A	1	0959	LIT	224
	1479		00,11	'CHAIN'		A	5	0964	LIT	224
	1481			'MLCWA'		Ā	5	0969	LIT	225
	1101			'ENT'		Ā	3	0972	LIT	225
•	1485			*MA *		Ā	5	0977	LIT	225
	1487			*EX *		A	5	0982	LIT	225
	1.0.			'END'		A	3	0985	LIT	225
	1495			'LTORG'		A	5	0990	LIT	225
	21,75			141		A	ī	0991	LIT	225
				'SCR'		A	3	0994	LIT	226
				181		Ā	í	0995	LIT	226
				1 B 1		Ā	î	0996	LIT	226
	1560	BLANK		=03		Ä	3	0999	AREA	226
	1584	DEMIN		'END\$\$\$'		A	6	1005	LIT	226
1589	15 65	*		CHUTT		**	•	2005		
	15 66		TN I TN	E PROCESSING ANNEX						
	15 67	#		L THOSE STITE AIMEN						
	15 68	-	SFX	X						
	15 69		ORG	NUORIG		Х			1044	
	15 70	EOF18	RWD	1		X	5	1044	U (U1 R	227
	15 71	20.10	S	PREVS		X	4	1049	S H72	227
	15 72		В	SWITCH		X	4	1053	B LO1	227
	15 73	¥	J				•			
	15 74		ncess	LOZENGED FIELD 6 - 20						
	15 75	#	00200							
	15 76	LOZENG	ВМ	MLBLZ, MAINX+2+X1 Q. INTERNAL LABEL		X	8	1057	V D68 O+3 K	227
	15 77		В	LABEL		X	4	1065	B /19	227
	15 78		MCW	BLANKS, MAINX+4+X1		X	7	1069	M W16 0#5	227
	15 79		MCW	INDEX1, SAVX1=3		Х	7	1076	M 089 W11	227
	15 80		MCW	INDEX3, INDEX2		X	7	1083	M 099 094	228
	15 81		В	SBGRD		X	4	1090	B G46	228
	15 82		Ā	SAVX1, INDEX1		X	7	1094	A W11 089	228
	15 83		MCW	0+X3,MAINX+X1		X	7	1101	M 0+0 0+1	228
	15 84		MCW	SAVX1, INDEX1		X	7	1108	M W11 089	228
	15 85		В	UPENGL		X	4	1115	B A48	228
	15 86	*	_	, 			•		- · · · · · · · ·	
	15 87		CATE P	ARAMETERS						
	15 88	*								
	15 89	LABEL	SBR	LEXIT+3		Х	4	1119	H S63	229
	15 90	100 - 1 10 ² No. 100	MCW	BLANKS=5, INDEX3		X	7		M W16 099	229
	15 01		MCW	BLANKS CAITD		¥			PIW AIW M	220

1615 15 91

MCW

BLANKS, CNTP

SEQ	PG	LIN	LABEL	OP	OPERANDS		SF)	СТ	LOCN	INSTRUCTION TYPE	CARD
1616	15	92		MN	MAINX+1+X1, CNTP		х	7	1137	D 0‡2 W19	229
1617			CIRCL	S	+1,CNTP		X	7	1144	S W17 W19	229
1618			OTHEL	BM	TENSR, CNTP		X	8	1151	V /70 W19 K	230
1619				A	'3', INDEX3		X	7	1159	A W18 099	230
1620				В	CIRCL		X	4	1166	B /44	230
1621			TENSR	BCE	CHZON, DECTB-2+X3,0		X	8	1170	8 -74 UIO O	230
1622			16.45.	MCW	BLANKS, CNTP=1		X	7	1178	M W16 W19	230
1623				MCW	DECTB+X3, INDEX3		X	7	1185	M UI2 099	231
1624				MN	MAINX+2+X1,CNTP		X	7	1192	D 0+3 W19	231
1625			MOVINP		+1,CNTP		X	7	1199	S W17 W19	231
1626			11012111	MCW	0+X3+0+X3		X	7	1206	M 0+0 0+0	231
1627				SAR	WAREA=3		X	4	1213	Q W22	231
1628				BCE	CHZON, 0+X3,,	Q. MISSING PARAMETER	X	8	1217	B -74 0+0 •	232
1629				ВМ	PUTIN, CNTP	Q. PARAMETER LOCATED	X	8	1225	V S44 W19 K	232
1630				MCW	WAREA, INDEX3		X	7	1233	M W22 099	232
1631				В	MOVINP		X	4	1240	B /99	232
1632			PUTIN	BCE	CHZON, 0+X3,		X	8	1244	B -74 0+0	232
1633				BWZ	DELET, MAINX+2+X1,S		X	8	1252	V D41 0+3 S	233
1634			LEXIT	8	0		x	4	1260	в 000	233
1635			*	J	•		•	•			
1636				ROCESS	1 TORG						
1637			*	KOCESS	£1010						
1638			HAULIT	MCW	ORG *, MAINX+19	REPLACE LTORG WITH ORG	X	7	1264	M W27 020	233
1639			HAULIT	MCW	'L', MAINX+74	NETEROL ETONO WITH ONO	X	7	1271	M W28 075	233
1640				В	SBROT		X	4	1278	В 033	233
1641				8	EXITC		X	4	1282	B D79	233
1642				CS	LMAIN		x	4	1286	/ 086	233
1643				MCW	LITORG, MAINX+20	GENERATE LTORG*	X	7	1290	M T58 021	234
1644				MCW	CHARCC, MAINX+74	CENTERNIE ETONO.	X	7	1297	M U61 075	234
1645				В	WHYYY		X	4	1304	B K97	234
1646			*		***************************************		•	•	230,		
1647			₩		PREPARATION FOR I	LTORG, EX, EX OR IOCS					
1648			*		7 112 7 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Elonoy Englin on 1000					
1649			SUREX	SBR	SIMPLE+3		Х	4	1308	H T41	234
1650			JONEX	SW	1					, 001	234
1651				CS	LIPUTX		X	4	1316	/ 186	234
1652				LCA	LMAINX, LIPUTX		X	7	1320	L 086 186	234
1653				В	EXITCX		X	4	1327	B D79	235
1654				LCA	LIPUTX, LMAINX		X	7	1331	L 186 086	235
1655			SIMPLE		0		X	4	1338	B 000	235
1656			TOFEXT		+RWDEXT		X	3	1344	D83	235
1657			IDILAI	DCW	'M(U1001R'		X	8	1352		235
1658			LITCRG		'LTCRG*'		x	6	1358		235
1659			*		- 1 VIIV "		~	-			
1660				CS TAB	F						
1661			* 10	JU 170	100						
1662			-	DCW	# <u>=</u> #		Х	1	1359		235
1663				DCW	'RLS'		X	3	1362		236
1664				DCW	'GET'		X	3	1365		236
1665				DCW	'PUT'		X	3	1368		236
		-					.,	-			

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION TYPE	CARD
1666	16	42		DCW	'DTF'	Х	3	1371		236
1667			TABLEI		10PE1	X	3	1374		236
1668			#	0011						7 7
1669				ERATE	UNKNOWN MACRO CARD					
1670			*	_,,,,,						
1671			NOROT	SBR	NRCTC+3	Х	4	1375	H U14	236
1672				CS	LMAINX	Х	4	1379	/ 086	236
1673	16	49		MCW	B',MAINX+85	Х	7	1383	M W29 086	237
1674	16	50		MCW	"UNKNOWN", MAINX+19	Х	7	1390	M W36 020	237
1675	16	51		MCW	CHARCC, MAINX+74	Х	7	1397	M U61 075	237
1676	16	52		MCW	***,MAINX+5	Х	7	1404	M W37 006	237
1677			NROTC	В	0	Х	4	1411	В 000	237
1678			POTS	MCW	*B*,SWITCH	Х	7	1415	M W29 L01	237
1679				MCW	'N', NEXTCD	Х	7	1422	M W38 N66	238
1680				В	COOKER	X	4	1429	B E90	238
1681			*							
1682				DIFY	ADDRESS MACRO					
1683			*	Meri	CHADOD MATNY, 7/	u	~	1/22	M 072 075	220
1684			MASET	MCW	CHARCR, MAINX+74	X	7	1433	M U62 075	238
1685				В	SBROTX	X	4	1440	B 033	238
1686				MCW	'D', MAINX+17	X	7	1444 1451	M W39 018 B P18	238 238
1687			THELDY	B	SGC	X	4 5	1451	D P10	238
1688			INCLDX		INCLD! 'Z'	x	1	1460		239
1689 1690			CHARCS CHARCC		1 Y 1	x	1	1461		239
1691			CHARCE		a Wa	X	i	1462		239
1692			KINGS	В	NOROT	x	4	1463	в т75	239
1693			KINGS	MCW	HLDSB, MAINX+10	X	7	1467	M 192 011	239
1694				В	WHYYY	X	4	1474	B K97	239
1695			ENDSTX		CTAPE	X	4	1478	B W50	239
1696			E.12017	NOP	TOF5	X	4	1482	N V89	240
1697				В	OVLY4I	X	4	1486	B 434	240
1698			DECTB	DCW	+PARTB	Х	3	1492	466	240
1699				DA	9X3	Х		1493	1519	241
1700			ENDDC	EQU	*	X		1519		
1701			MOVEC	LCA	* *,0+X3	X	7	1520	L W40 0+0	241
1702	16	78		SBR	INDEX3	X	4	1527	H 099	241
1703	16	79		Α	'3',INDEX2+1	X	7	1531	A W18 095	242
1704	16	80		BCE	MIDLE, INDEX2+1,3	Х	8	1538	B H22 095 3	242
1705			LOWER	Α	'1',INDEX1	Х	7	1546	A W41 089	242
1706				SW	MAINX+20+X1	Х	4	1553	, 051	242
1707				BCE	MOVEC, MAINX+20+X1,,	X	8	1557	B V20 OS1 ,	242
1708			WEEDD	MCW	INDEX2+1, IOCSAV	X	7	1565	M 095 H10	243
1709				В	WEEDBX	X	4	1572	B N39	243
1710				MCW	IOCSAV, INDEX2+1	X	7	1576	M H10 095	243
1711			TOCC	В	COMSN	X	4	1583	B P79	243
1712			TDF5	DCW	=3 = 000 844	X	3	1589	1 /115 434 0	243
1713			MEURAT	RTW	5,0VLY4I	X	8	1590	L (U5 434 R	243
1714			NEWEST		0	X	1 3	1598 1601		243 243
1715	10	7.1	SYMNM	DCM	'000'	X)	TOOT		243

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SEQ PG LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1716 16 92	WHOOPS	DCW	'CALL'	х	4	1605			244
1717 16 93	ADDCAL	DCW	+CALLTX	Х	3	1608	- 73		244
1718 16 94		LTORG	*	X			1609		
1603	SAVX1	DCW	=03	X	3	1611		AREA	244
1614	BLANKS		=05	X	5	1616		AREA	244
			+1	Х	1	1617		LIT	244
			131	Х	1	1618		LIT	244
1622	CNTP		=01	X	1	1619		AREA	244
1627	WAREA		=03	Х	3	1622		AREA	245
1638			ORG '	Х	5	1627		LIT	245
			יני	X	1	1628		LIT	245
			B	Х	1	1629		LIT	245
1674			'UNKNOWN'	X	7	1636		LIT	245
			1 4 1	X	1	1637		LIT	245
			N	Х	1	1638		LIT	245
			·D·	X	1	1639		LIT	246
			1 1	Х	1	1640		LIT	246
			111	Х	1	1641		LIT	246
1719 16 95		ORG	1649	X			1649		
1720 16 96	GM1	DCW	1 1	Х	1	1649			247
1721 16 97		EX		X			В 000		248

SEQ PG LIN	LABEL	OP	OPERANDS	SFX	СТ	LOCN	INSTRUCTION TYPE	CARD
1722 16 98		JCB	1401 AUTOCODER - PASS 2 - MACRO-GENERATOR- VERSION	3				
1723 16 99		SFX	X					
1724 17 00	*						•	
1725 17 01	* GE	NERALI	ZED TAPE INPUT/OUTPUT ROUTINE					
1726 17 02	*						•	
1727 17 03		ORG	1650	Х			1650	
1728 17 04	CTAPEX	SBR	INDEX2	Х	4	1650	H 094	251
1729 17 05		SBR	CCONPR+3	X	4	1654	н х70	251
1730 17 06		MCW	3+X2,INDEX2	Х	7	1658	M 0-3 094	251
1731 17 07		MCW	8+X2;CTAPEC+7	Х	7	1665	M 0-8 X29	251
1732 17 08		MCW	0+X2,CEORC+3	Х	7	1672	M 0-0 X41	251
1733 17 09		SW	CCOMPR+4	Х	4	1679	• X47	251
1734 17 10		MCW	7+X2,CCOMPR+6	Χ	7	1683	M 0-7 X49	252
1735 17 11		A	1121,CCOMPR+6	Х	7	1690	A Y93 X49	252
1736 17 12		CW	CCOMPR+4	X	4	1697) X47	252
1737 17 13		MN	CTAPEC+3,CHALT+6	Х	7	1701	D X25 Y55	252
1738 17 14		MN	CTAPEC+7,CHALT+6	X	7	1708	D X29 Y55	252
1739 17 15		MCW	'9',CERRCT=1	X	7	1715	M Y94 Y95	252
1740 17 16	CTAPEC	RT	0,0	Х	8	1722	M (UO 000 R	253
1741 17 17		BCE	COMETS, CTAPEC+7, W	Х	8	1730	B X62 X29 W	253
1742 17 18	CEGRC	BEF	0	X	5	1738	в 000 к	253
1743 17 19	CCOMPR	BCE	CTAPEC,0,	Х	8	1743	B X22 000	253
1744 17 20		8		Х	1	1751	В	253
1745 17 21		В		Х	1	1752	В	253
1746 17 22		В		Х	1	1753	В	253
1747 17 23		В		X	1	1754	В	254
1748 17 24		В		X	1	1755	В	254
1749 17 25		В		X	1	1756	В	254
1750 17 26		8		Х	1	1757	8	254
1751 17 27		В		X	1	1758	В	254
1752 17 28		В		X	1	1759	В	254
1753 17 29		В		X	1	1760	8	254
1754 17 30		В		X	1	1761	В	255
1755 17 31	COMETS		CRWRED	X	5	1762	B X71 L	255
1756 17 32	CCONPR		0	X	4	1767	B 000	255
1757 17 33	CRWRED		'1',CERRCT	X	<i>'</i>	1771	S Y96 Y95	255
1758 17 34		MN	CTAPEC+3,*+4	X	(1778	D X25 X88	255
1759 17 35		BSP	0	X	5	1785	U (UO B	255
1760 17 36		BCE	CTROW, CTAPEC+7, W	X	8	1790	B Y10 X29 W	255
1761 17 37		BM	CHALT, CERRCT	X	8	1798	V Y49 Y95 K	256
1762 17 38	CTDC	В	CTAPEC	X	4	1806	B X22	256
1763 17 39	CTROW	A	11*,CERASC=2	X	(1810	A Y96 Y98	256 254
1764 17 40		SKP	6	X	5	1817	U (U6 E	256 254
1765 17 41		BCE	CCHALT, CERASC-1,5	X	8	1822	B Y34 Y97 5	256 256
1766 17 42	CCHALT	В	CTAPEC-7	X	4	1830	8 X15	256 257
1767 17 43	CCHALT		CERASC	X	4	1834	S Y98	257 257
1768 17 44		Н	0,202 CTAREC_7	X	7	1838	• 000 202	257 257
1769 17 45	CHALT	В	CTAPEC-7	X	4	1845 1849	B X15 • 000 200	257 257
1770 17 46	CHALT	H	0,200 CTAREC_7 E	X	5	1856	B X15 E	257 257
1771 17 47		BSS	CTAPEC-7,E	X	9	1000	O VID E	257

SEQ PG LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1772 17 48		MCW	CTAPEC+7, *+8	Χ	7	1861	M X29 Y75		257
1773 17 49		RT	0,0	Х	8	1868	M (UO 000 R		258
1774 17 50		Н	0,201	Х	7	1876	. 000 201		258
1775 17 51		В	CCONPR	Х	4	1883	B X67		258
1776 17 52	HEADR	DCW	*HEADR*	X	5	1891			258
1777 17 53	*********	LTORG		Х			1892		_
		DCW	1121	Х	2	1893		LIT	258
		,	191	Х	1	1894		LIT	258
1739	CERRCT		=01	Х	1	1895		AREA	258
	-		111	Х	1	1896		LIT	259
1763	CERASC		=02	Х	2	1898		AREA	259
1778 17 54	*								
1779 17 55	* IN	ITIALI	ZATION						
1780 17 56	*								
1781 17 57		ORG	1900	Χ			1900		
1782 17 58	STARTX	MCW	340, IOCSAV	X	7	1900	M 340 H10		260
1783 17 59		MCW		Х	1	1907	M		260
1784 17 595		MCW	NORDRL, HOLE=1	Х	7	1908	M W12 -55		260
1785 17 60		В	CTAPE	Х	4	1915	B W50		260
1786 17 61		NOP	TDFSS	Х	4	1919	N Z68		260
1787 17 62		CW	GM1	Х	4	1923) W49		260
1788 17 63		SW	3998	Χ	4	1927	• I98		260
1789 17 64		MCW	LIPUT+1,3998	Х	7	1931	M 187 I98		261
1790 17 65		CW	3995,3997	Х	7	1938	1 195 197		261
1791 17 66		BSS	ALTERX, B	X	5	1945	B Z77 B		261
1792 17 67		RWD	1	X	5	1950	U (U1 R		261
1793 17 675		MCW	HOLE, CARDSX	X	7	1955	M -55 189		261
1794 17 68		В	STARTA	Х	4	1962	B 101		261
1795 17 69	TDFSS	DCW	+CCHALT	Χ	3	1968	Y34		261
1796 17 70		DCW	'L(U1001R'	Х	8	1976			262
1797 17 71	ALTERX	В	CTAPEX	Х	4	1977	B W50		262
1798 17 72		NOP	TDFSS	X	4	1981	N Z68		262
1799 17 73		CW	GM2XXX	X	4	1985) #43		262
1800 17 74		RWD	1	Х	5	1989	U (U1 R		262
1801 17 75		MCW	IDCSAV, SYMNM	X	7	1994	M H10 W01		262
1802 17 76		MCW	+IOCALT,SWITCH+3	Х	7	2001	M -58 L04		262
1803 17 77		SBR	HAPPY+3,STRING	X	7	2008	H N73 156		263
1804 17 78		MCW	'N',OUTSB	Х	7	2015	M - 59 041		263
1805 17 79		MCW	'N',BUT1X	Х	7	2022	M - 59 037		263
1806 17 80		MCW	'N',BUT2X	Х	7	2029	M -59 D89		263
1807 17 81		BCE	VOICEB, IOCSAV-3, *	Х	8	2036	B 101 H07 *		263
1808 17 82		MCW	'N',SWMA2B	Х	7	2044	M -59 759		264
1809 17 83		В	VOICEB	Х	4	2051	B 101		264
1810 17 84		LTORG		Х			2055		
1784	HOLE	DCW	=01	X	1	2055		AREA	264
1802			+IOCALT	X	3	2058	106	ADCON	264
			'N'	X	1	2059		LIT	264
1811 17 85		ORG	1900	X			1900		
1812 17 86		DA	1X174	X		1900	2073		264
1813 17 87	CALLT	EQU	•	Х		2073			

SEQ PG LIN	LABEL O	P	OPERANDS	SFX	СТ	LOCN	INSTRUCTION TYPE	CARD
1814 17 88	*							
1815 17 89		SS MI	SSING PARAMETERS WITH REGARD TO ZONE					
1816 17 90	*							
1817 17 91		WZ	SLASH, MAINX+2+X1, S	х	8	2074	V J08 0‡3 S	265
1818 17 92			DELET, MAINX+2+X1,B	X	8	2082	V D41 0+3 B	265
1819 17 93			*B*, MAINX+85	X	7	2090	M H44 086	265
1820 17 94	ZONBR C		MAINX+X1, MAINX+3+X1	X	7	2097) 0 + 1 0 + 4	265
1821 17 95	ZONCH B		DEFND	X	4	2104	B +41	265
1822 17 96			BLANKS-2, MAINX+2+X1	X	7	2108	M W14 0#3	266
1823 17 97	5 B		ZONBR	X	4	2115	B -97	266
1824 17 98	SUBSET M		*N*,SWITCH	X	7	2119	M H45 L01	266
1825 17 99			*B*,NEXTCD	x	7	2126	M H44 N66	266
1826 18 00			CHARCS, MAINX+74	x	7	2133	M U60 075	266
1827 18 01	B		CALIT	x	4	2140	B J58	266
1828 18 02	_		*B*,NOCAL	x	7	2144	M H44 K20	267
		CH	- D- INDCAL	^	•	2177	13 1144 K20	201
1829 18 03	# DOOCE	CCTNC	CALL CTATEMENT					
1830 18 04		: 22 TMG	CALL STATEMENT					
1831 18 05	* CA11A1 M	ue u	CHADED MATNY 174	v	7	2151	M U62 075	267
1832 18 06			CHARCR, MAINX+74	X X	7	2151	M W08 094	
1833 18 07			ADDCAL, INDEX2 BEGIN SCAN OF CALL TABLE			2165		267
1834 18 08			MAINXX+20	X	4		, 021	267
1835 18 09	YSCALX B		XXXX, INDEX2-2, Y Q. CALL TABLE EXCEEDED	X	8	2169	B K90 092 Y	267
1836 18 10	Č		0+X2,	X	7	2177	C 0-0 H48	268
1837 18 11			SPADEX	X	5	2184	B K09 S	268
1838 18 12	C		0+X2, MAINX+22	X	7	2189	C 0-0 023	268
1839 18 13		SAR	INDEX2	Х	4	2196	Q 094	268
1840 18 14	В		QUEEN	X	5	2200	B K16 S	268
1841 18 15	В		YSCALX	Х	4	2205	B J69	268
1842 18 16	SPADEX M		MAINX+22,0+X2	X	7	2209	M 023 0-0	268
1843 18 17	QUEEN C	, -	MAINXX+20	X	4	2216) 021	269
1844 18 18	NCCALX N	IOP	SKELCX	X	4	2220	N R17	269
1845 18 19	В	3	SBROT	X	4	2224	8 033	269
1846 18 20	8	CE	SWITCH, MAINX+19, D Q. INCLD STATEMENT	Х	8	2228	B L01 020 D	269
1847 18 21	*							
1848 18 22	* LOAD	PARA	METERS INTO TABLE					
1849 18 23	*							
1850 18 24	M	1CW	MAINX+10, PARTB	X	7	2236	M 011 466	269
1851 18 25		BR	INDEX3	Х	4	2243	H 099	269
1852 18 26	S		INDEX1+1	Х	4	2247	S 090	269
1853 18 27	DIMNDX B		SCANXX	Х	4	2251	B M19	270
1854 18 28		W	1	Х	4	2255	, 001	270
1855 18 29			MAINX+18+X1,0+X3	Х	7	2259	L 0/9 0+0	270
1856 18 30			INDEX3	Х	4	2266	H 099	270
1857 18 31			HEARTX, MAINX+19+X1,	X	8	2270	B L09 0S0	270
1858 18 32			WEEDBX, MAINX+19+X1,,	X	8	2278	B N39 OSO ,	270
1859 18 33	В		DIMNDX	X	4	2286	B K51	270
1860 18 34		1CW	*7*,MAINX+85	x	7	2290	M H49 086	271
1861 18 35	WHYYY B		SBROT	x	4	2297	В 033	271
1862 18 36	SWITCH B		READTA	X	4	2301	B 467	271
1863 18 37	B		POTS	x	4	2305	B U15	271
TOOD TO DI	υ	,		^			- V2>	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	СТ	LOCN	INSTRUCTION TYPE	CARD
1864	18	38	*							
1865			* GE	NERATE	BRANCH AND DCW, S					
1866			*							
1867	18	41	HEARTX	LCA	1 1,0+X3	Χ	7	2309	L H50 0+0	271
1868	18	42		CS	LMAINX	X	4	2316	/ 086	271
1869				MCW	PARTB, MAINX+10	Х	7	2320	M 466 011	271
1870				MCW	PARTB-6, MAINX+24	X	7	2327	M 460 025	272
1871				SAR	INDEX3	X	4	2334	Q 099	272
1872				MCW	B, MAINX+15	X	7	2338	M H44 016	272
1873			SLAM	MCW	CHARCC, MAINX+74	X	7	2345	M U61 075	272
1874				MCW	INDEX3, SAVXL2=3	X	7	2352	M 099 H53	272
1875				MCW	SAVXL2, INDEX3	X	7	2359	M H53 099	272
1876				CW	MAINX+23	X	4	2366) 024 B 033	273
1877 1878				B CS	SBROT LMAINX	X X	4	2370 2374	/ 086	273 273
1879				BCE	SWITCH, 0+X3,	X	8	2378	B LO1 0+0	273
1880				MCW	*DCW*, MAINX+17	x	7	2386	M H56 018	273
1881				MCW	INDEX3, INDEX2	X	7	2393	M 099 094	273
1882				В	SBGRDX	x	4	2400	B G46	273
1883				MCW	0+X3, MAINX+20+X1	x	7	2404	M 0+0 0S1	274
1884				SAR	INDEX3	X	4	2411	Q 099	274
1885				В	SLAM	X	4	2415	B L45	274
1886			*							
1887			*	SCAN FO	DR COMMA, TWO BLANKS, OR AN '					
1888			*							
1889			SCANXX	SBR	CLUBS+3	X	4	2419	H N12	274
1890			SCANL	SW	MAINX+20	X	4	2423	, 021	274
1891				BCE	SCNAT, MAINX+20+X1, 1	Х	8	2427	B N13 OS1 '	274
1892				BCE	CETWMS, MAINX+20+X1,,	Х	8	2435	B M98 OS1 ,	274
1893				C	MAINX+20+X1, * *	Х	7	2443	C 0S1 H58	275
1894				BE	CLUBS	X	5	2450	B N09 S	275
1895			CXITI	A	'l', INDEX1	X	7	2455	A H59 089	275
1896				C	INDEX1,*52*	X	7	2462	C 089 H61	275
1897				BU	SCANL	X	5	2469	B M23 /	275
1898				C	MAINX+71, '	X	7		C 072 H58	275
1899				BE	CLUBS MAINVA71	X	8	2481 2486	B N09 S B N09 072	276 276
1900 1901				BCE B	CLUBS, MAINX+71, CXIT	X X	4	2494	B N02	276
1902			CETWMS		MAINX+21+X1	X	4	2498	, 0\$2	276
1902			CXIT	A	11*, INDEX1	X	7	2502	A H59 089	276
1904			CLUBS	В	0	x	4	2509	В 000	276
1905				ZA	15101, INDEX1+1	x	7	2513	+ H64 090	276
1906			ATLCK	BCE	CXIT1, MAINX+20+X1,	x	8	2520	B M55 OS1 *	277
1907			975 I - W71	S	+10, INDEX1+1	x	7	2528	S H66 090	277
1908				В	ATLOK	x	4	2535	B N20	277
1909			*				•			
1910			* CBT	AIN MOR	RE PARAMETERS FROM ADDITIONAL RECORDS					
1911			*							
1912			WEEDBX	SBR	WEDXT+3	X		2539		277
1913	18	87		В	NEWEED	X	4	2543	B N54	277

SEQ	PG	LIN	LABEL	OP	OPERANDS		SFX	СТ	LOCN	INSTRUCTI	ON TYPE	CARD
1914	1 2	ΩQ	WEDDBX	A	11, INDEX1		X	7	2547	A H59 089		277
1915			NEWEED		INDEX1, '52'		x	7	2554	C 089 H61		278
1916			MENECD	BU	LOOPW		~	<u>;</u>	2561	B 006 /		278
1917			NEXTCD		CALLCD		x	4	2566	N G80		278
1918			HAPPY	В		NEXT RECORD	X	4	2570	B 653		278
1919			11861 1	NOP	THEODA NEAD	MEAT NEGONO	x	i	2574	N		278
1920				MCW	CHARCR, MAINX+74		x	7	2575	M U62 075		278
1921			THRU	В	SBROTX		x	4	2582	B 033		278
1922			31100	BCE	HAPPY, MAINX+5, *		X	8	2586	B N70 006		279
1923				S	INDEX1+1		x	4	2594	S 090	~	279
1924				BCE		RST PARAMETER MISSSING	x	8	2598	B V20 021	_	279
1925			LOOPW	BCE	WEDDBX, MAINX+20+X1,	MOI TAMANETEN NIIOOINO	x	8	2606	B N47 OS1	7	279
1926			200. M	SW	MAINX+20+X1		X	4	2614	, 051		279
1927			WEDXT	В	0		x	4	2618	В 000		279
1928			TDF6	DCW	+CCHALT		x	3	2624	Y34		279
1929			1010	DCW	'M(U6I12W'		x	8	2632	134		280
1930			*	OC#	MOOTIZA		^	U	2072			200
1931				TPUT RO	HITTNE							
1932			*		JOT THE							
1933			SBROTX	SAR	BRNCH+3		X	4	2633	н 099		280
1934			BUT1X	В	HOMEX		x	4	2637	B 048		280
1935			OUTSB	MCW	ANTPER, COMETS+3		x	7	2641	M 955 X65		280
1936			HOMEX	MCW	LMAIN, LOPUT		x	7	2648	M 086 197		280
1937			HOBEX	BCE	BUT2X,OUTPT+73,*		â	8	2655	B 089 185	*	280
1938				MCW	BLANKS-3, CUTPT+73		x	7	2663	M W13 I85	-	281
1939				SW	LOPUT+1		x	4	2670	, 198		281
1940				MCW	LIPUT+1,LCPUT+1		x	7	2674	M 187 198		281
1941				В	CTAPEX		x	4	2681	B W50		281
1942				NOP	TDF6		x	4	2685	N 024		281
1943			BUT2X	MCW	ACRWED, COMETS+3		x	7	2689	M 958 X65		281
1944			BRNCH	В	0		X	4	2696	В 000		281
1945			#	•			,,	•		- 500		
1946				CESS PA	RAMETERS FOR SUBSTITUTIO	INS						
1947			#									
1948			MSUBTX	MCW	*R*,MAINX+74		Х	7	2700	M H67 075		282
1949				В	SBROTX		X	4	2707	B 033		282
1950				A	11,SYMNM		X	7	2711	A H59 W01		282
1951			SGC	MCW	MAINX+17,HLDSB		X	7	2718	M 018 192		282
1952				S	ENDDC		X	4	2725	S V19		282
1953				CHAIN							MACRO	
1954				S			Χ	1	2729	S	GEN	282
1955				Š			X	1	2730	S	GEN	282
1956				S			Х	1	2731	S	GEN	283
1957				S			X	1	2732	S	GEN	283
1958				S			X	1	2733	S	GEN	283
1959				S			X	1	2734	S	GEN	283
1960				Š			X	1	2735	S	GEN	283
1961				Š			X	ī	2736	Š	GEN	283
1962	19	28		Š	INDEX2+2		X	4	2737	\$ 096		283
1963				Ā	131, INDEX2+1		X	7	2741	A H68 095		284
								•	_			= .

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	СТ	LOCN	INSTRUCTION TYP	E CARD
1964	19	30		MCW	MAINX+10, PARTB	Х	7	2748	M 011 466	284
1965				SBR	INDEX3	X	4	2755	H 099	284
1966				S	INDEX1+1	X	4	2759	\$ 090	284
1967				BCE	BTREND, MAINX+20,	X	8	2763	B Q25 021	284
1968				BCE	MOVEC, MAINX+20,,	X	8	2771	B V20 021 ,	284
1969			COMSN	A	'3', INDEX2+1	X	7	2779	A H68 095	285
1970				BCE	ABOVE, INDEX2+1,3	X	8	2786	B H33 095 3	285
1971			BELOW	В	SCANXX	Χ	4	2794	B M19	285
1972				LCA	MAINX+18+X1,0+X3	Х	7	2798	L 0/9 0+0	285
1973				SBR	INDEX3	Х	4	2805	H 099	285
1974				BCE	MOVEC, MAINX+20+X1,,	X	8	2809	B V20 OS1 ,	285
1975				BCE	WEEDD, MAINX+19+X1,,	X	8	2817	B V65 OSO ,	286
1976			BTREND		',',0+X3	X	7	2825	L H69 0+0	286
1977				CS	LMAINX	X	4	2832	/ 086	286
1978				С	PREVS=3, HLDSB	Х	7	2836	C H72 192	286
1979				MCW	19991, PREVS	X	7	2843	M H75 H72	286
1980				BE	HARMN	X	5	2850	B R65 S	286
1981				ВН	RDTP1	Х	5	2855	B Q65 U	287
1982	19	48	EOF1	RWD	1	X	5	2860	U (U1 R	287
1983			#							
1984	19	50	#		SUBSTITUTIONS					
1985	19	51	*							
1986	19	52	RDTP1	SW	100	X	4	2865	, 100	287
1987	19	53		В	CTAPE	X	4	2869	B W50	287
1988	19	54		NOP	TDFLIB	X	4	2873	N B18	287
1989	19	55		C	MAINX+19, HEADR	Х	7	2877	C 020 Y91	287
1990	19	56		BU	RDTP1	Х	5	2884	B Q65 /	287
1991	19	57		C	MAINX+7, *999*	Х	7	2889	C 008 H75	288
1992				BE	KINGS	Х	5	2896	B U63 S	288
1993				С	MAINX+7, HLDSB	Х	7	2901	C 008 192	288
1994				BU	RDTP1	X	5	2908	B Q65 /	288
1995				В	HARMN	X	4	2913	B R65	288
1996			SKELC	MCW	'N', NOCAL	X	7	2917	M H45 K20	288
1997				MCW	CHARCS, MAINX+74	X	7	2924	M U60 075	289
1998				В	SBROT	X	4	2931		289
1999				BCE	HARMN, MAINX+19, D	Χ.	8	2935	B R65 020 D	289
2000				MCW	*B *,MAINX+19	X	7	2943	M H80 020	289
2001			BOUTS	CW	ZEROX	X	4	2950	1 188	289
2002				MCW	CHARCC, MAINX+74	X	7	2954	M U61 075	289
2003				В	SBROTX	X	4	2961	B 033	290
2004			HARMN	CS	LMAINX	X	4	2965	/ 086	290
2005				SW	1,100	X	7	2969	, 001 100	290
2006				MCW	LIPUT+1,100	X	7	2976	M 187 100	290
2007				В	CTAPEX	X	4	2983	B W50	290
2008				NOP	TDFLB2	X	4	2987	N B29	290
2009				C	MAINX+19, HEADR	X	7	2991	C 020 Y91	290
2010				MCW	MAINX+7, PREVS	X	7 5	2998	M 008 H72	291
2011				BE	SWITCH	X		3005 3010	8 LO1 S C 008 H83	291
2012				C	MAINX+7,*)00*	X	7 5	3017	B +26 /	291 291
2013	13	17		BU	LZFND	^	2	20 I /	D 720 /	271

SEQ P	G I	LIN	LABEL	OP	OPERANDS	:	SFX	СТ	LOCN	INSTRUCTION	TYPE	CARD
2014 1				SW	ZEROX		X	4	3022	, 188		291
2015 1 2016 1 2017 1	9 (82	* RI	GHT TO	LEFT SCAN FOR LOZENGES							
2018 1			LZFND	ZA	'690', INDEX1+1		Х	7	3026	+ H86 090		291
2019 1			LOZSC		LZCNT, MAINX+X1,)		X	8	3033	B B38 0#1)		292
2020 1			DEFND		+10, INDEX1+1		X	7	3041	S H66 090		292
2021 1				Č	INDEX1, 151		X	7	3048	C 089 H88		292
2022 1				BU	LOZSC		X	5	3055	B +33 /		292
2023 1	9 8	89		S	INDEX1+1		Χ	4	3060	S 090		292
2024 1	9	90	CLEAN	СВ	SCANXX		X	4	3064	B M19		292
2025 1				CW	MAINX+20, MAINX+20+X1		X	7	3068) 021 081		293
2026 1				С	INDEX1, 151		X	7	3075	C 089 H90		293
2027 1				BL	ENDCLN		X	5	3082	B A26 T		293
2028 1				С	MAINXX+20+X1, • •		Х	7	3087	C 0S1 H58		293
2029 1				BU	CLEANC		X	5	3094	B +64 /		293
2030 1				BCE	ENDCLN, MAINX+5, *		X	8	3099	B A26 006 *		293
2031 1				SW	MAINX+20+X1		X	4	3107	, 051		294
2032 1				MCW	BLANKS-4, MAINXX+71		X	7	3111	M W12 072 M 072		294
2033 1				MCW	MAINXX+71		X	4	3118 3122	M 072) 0S1		294 294
2034 2				CW	MAINXX+20+X1		^	4	3122	1 031		274
2035 2			* 0	TOUT TO	LEFT SCAN FOR LOZENGES 6 - 20							
2036 2 203 7 2			* R	IGH! IC	LEFT SCAN FOR LOZENGES 6 - 20							
2038 2			ENDCL	N MCU	'015',INDEX1		Х	7	3126	M H93 089		294
2039 2			LNUCL	SBR	ZONCH+3, UPENGL		x	7	3133	H J07 A48		294
2040 2			ENGLO		LOZENG, MAINX+X1,)		X	8	3140	B +57 0+1)		295
2041 2			UPENG		+10, INDEX1+1		X	7	3148	S H66 090		295
2042 2			01 2.10	Č	INDEX1, '04'		X	7	3155	C 089 H95		295
2043 2				BU	ENGLOZ		X	5	3162	B A40 /		295
2044 2			OUTSD		ZONCH+3, DEFND		X	7	3167	H J07 +41		295
2045 2			SHIFT		PARTB, MAINX+10		Χ	7	3174	N 466 011		296
2046 2				MCW	'N', SHIFTL		X	7	3181	M H45 A74		296
2047 2	20 3	13		С	MAINX+18,WHOOPS		Χ	7	3188	C 019 W05		296
2048 2	20	14		BE	MASKS		X	5		B J44 S		296
2049 2	20 3	15		C	MAINX+19, INCLD		X	7	3200	C 020 U59		296
2050 2	20 :	16		ΒE	MASKS		X	5	3207	B J44 \$		296
2051 2	20 :	17		В	BOUTS		Х	4	3212	B R50		297
2052 2			TDFLI		+KINGS		X	3	3218	U63		297
2053 2				DCW	'M(U1001R'		X	8	3226			297
2054 2			TDFLB		+EOF18		X	3	3229	‡44		297
2055 2				DCW	'M(U1001R'		Х	8	3237			297
2056 2			*		. 0754050 51540 23 73							
2057 2				KUCESS	LOZENGED FIELD 21 - 72							
2058 2			# 	0.05	DEEND MATNUTAVI		v	0	2220	D +61 0+2		207
2059 2			LZCNT		DEFND, MAINX+1+X1,		X	8	3238 3246	B +41 0+2 , 0+1 0+4		297 298
2060 2				SW	MAINX+X1, MAINX+3+X1		X	7 8	3253	V C56 0+3 K		298 298
2061 2				BM	STSYM, MAINX+2+X1 LABEL		X	4	3261	B /19		298
2062 2 2063 2				B McW	INDEX3, SAVX3=3		x	7	3265	M 099 H98		298
2003 2		L 7		17 O M	THOUNDEDWAYN		•	•	2202	0,, 11,00		

SEQ PG LIN	LABEL OP	OPERANDS	SFX	СТ	LOCN	INSTRUCTION TYPE	CARD
2064 20 30	S	INDEX3, WAREA	Х	7	3272	S 099 W22	298
2065 20 31	M Z	BLANKS, WAREA	x	7	3279	Y W16 W22	299
2066 20 32	MCW	1991, INDEX3	x	7	3286	M IO1 099	299
2067 20 33	S	WAREA, INDEX3	x	7	3293	S W22 099	299
2068 20 34	MCW	*I*, INDEX3-2	x	7	3300	M 102 097	299
2069 20 35	C	INDEX3,* 19F*	â	7	3307	C 099 105	299
2070 20 36	BL	SPTYP	x	5	3314	B C78 T	300
2070 20 30	MCW	MAINX+76+X3,MAINX+72	x	7	3319	M 0G7 073	300
2072 20 38	SBR	MOVE3+6	â	4	3326	H C47	300
2072 20 38	LMN CW	MAINX+3+X1	x	4	3330) 0#4	300
2074 20 40	MCW		â	7	3334	M H98 099	300
2074 20 40	MOVE3 MCW	SAVX3, INDEX3 0+X3,0	x	7	3341	M 0+0 000	300
2076 20 42		MAINX+X1	â	4	3348) 0+1	300
2077 20 42	CW		â	4	3352	B +41	301
2078 20 44	B CTCVM MCH	DEFND MAINX+68,MAINX+71	â	7	3356	M 069 072	301
	STSYM MCW		â	4	3363	M W01	301
2079 20 45	MCW	SYMNM					
2080 20 46	CW	MAINX+X1, MAINX+3+X1	X	7	3367) 0 + 1 0 + 4	301
2081 20 47	8	DEFND	Х	4	3374	B +41	301
2082 20 48	*	DOCCECTIVE OF ONE AND THE CHARACTER OPERANDS					
2083 20 49		PROCESSING OF ONE AND TWO CHARACTER OPERANDS					
2084 20 50	#			_	2270		201
2085 20 51	SPTYP LCA	MAINX+72,GUTPT+72	X	7	3378	L 073 184	301
2086 20 52	CW	MAINX+X1, MAINX+3+X1	X	7	3385) 0+1 0+4	302
2087 20 53	MCW	BLANKS-2, MAINX+71	Х	7	3392	M W14 072	302
2088 20 54	BCE	HOUSE, INDEX3, H	Х	8	3399	B D22 099 H	302
2089 20 55	MCW	OUTPT+72, MAINX+71	Х	7	3407	M 184 072	302
2 090 20 56	SBR	MOVE3+6	Х	4	3414	H C47	302
2091 20 57	В	SPOUT	Х	4	3418	B D33	302
2092 20 58	HOUSE MCW	OUTPT+72,MAINX+70	Х	7	3422	M 184 071	303
2093 20 59	SBR	MOVE3+6	X	4	3429	H C47	303
2094 20 60	SPOUT CW	OUTPT+3+X1	Х	4	3433) 1/5	303
2095 20 61	8	LMN	Х	4	3437	B C30	303
2096 20 62	DELET BW	LBLMV, ZERCX	Х	8	3441	V D53 188 1	303
2097 20 63	В	HARMN	Х	4	3449	B R65	303
2098 20 64	LBLMV MCW	'M',SHIFTL	Х	7	3453	M 106 A74	303
2099 20 65	CW	ZEROX	Х	4	3460) 188	304
2100 20 66	В	HARMN	Х	4	3464	B R65	304
2101 20 67	MLBLZ MCW	SYMNM, MAINX+10	X	7	3468	M W01 011	304
2102 20 68	В	OUTSD	X	4	3475	B A67	304
2103 20 69	*						
2104 20 70	* PULL IN	CALLED SUBROUTINES AT LTORG, END OR EXECUTE CARDS					
2105 20 71	#						
2106 20 72	EXITC SBR	CEXIT1+3	X	4	3479	H G45	304
2107 20 73	RWDEXT RWD	1	Х	5	3483	U (U1 R	304
2108 20 74	CWPRC CW	NEWEST	X	4	3488) V98	304
2109 20 75	TPRD1 SW	100	Х	4	3492	, 100	305
2110 20 76	MCW	LIPUT+1,1CO	X	7	3496	M 187 100	305
2111 20 77	В	CTAPEX	Х	4	3503	B W50	305
2112 20 78	NOP	TDFEXT	Х	4	3507	N T44	305
2113 20 79	C	MAINX+19, HEADR	X	7	3511	C 020 Y91	305
						the state of the s	

SEQ PG LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION TYPE	CARD
2114 20 80		BU	TPRD1	χ	5	3518	B D92 /	305
2115 20 81	SOLUT	C	MAINX+7, *999*	Х	7	3523	C 008 H75	305
2116 20 82		BE	EOF1A	X	5	3530	B F56 S	306
2117 20 83	OPPENT		ADDCAL, INDEX1	Х	7	3535	M W08 089	306
2118 20 84	PRTNER		TPRD1, INDEX1-2, Y	X	8	3542	B D92 087 Y	306
2119 20 85	1 11 11 12 11	SW	MAINX+5	X	4	3550	, 006	306
2120 20 86		C	0+X1,MAINX+7	X	7	3554	C 0‡0 008	306
2121 20 87		SAR	INDEX1	X	4	3561	Q 089	306
2122 20 88		BU	PRTNER	X	5	3565	B E42 /	307
2123 20 89		BW	TPRD1,1+X1	X	8	3570	V D92 0#1 1	307
2124 20 90		CW	MAINX+5	X	4	3578) 006	307
2125 20 91		SW	1+X1	X	4	3582	, 0 + 1	307
2126 20 92		SW	NEWEST	X	4	3586	, V98	307
2127 20 93	COOKER		CTAPEX	x	4	3590	B W50	307
2128 20 94	CCCKER	NOP	TDFEXT	x	4	3594	N T44	307
2129 20 95		C	MAINX+18, WHOOPS	x	7	3598	C 019 W05	308
2130 20 96		BE	SUBSET	x	5	3605	B J19 S	308
2131 20 97		C	MAINXX+19, INCLD	x	7	3610	C 020 U59	308
2132 20 98		BE	SUBSET	x	5	3617	B J19 S	308
2133 20 99		C	MAINX+19, HEADR	â	7	3622	C 020 Y91	308
2134 21 00		BE	SOLUT	â	5	3629	B E23 S	308
2135 21 01		MCW	CHARCC, MAINX+74	x	7	3634	M U61 075	309
2136 21 02		LCA	LOPUT+1,100	x	7	3641	L 198 100	309
2137 21 03		В	SBRGT	â	4	3648	B 033	309
2138 21 04		В	COOKER	X	4	3652	B E90	309
2139 21 05	EOF1A	MCW	ADDCAL, INDEX1	x	7	3656	M W08 089	309
2140 21 06	COMBL	BCE	CEXIT, INDEX1-2, Y	x	8	3663	B G26 087 Y	309
2141 21 07	001.00	C	0+X1, 1	x	7	3671	C 0‡0 H48	310
2142 21 08		SAR	INDEX1	X	4	3678	Q 089	310
2143 21 09		BE	CEXIT	X	5	3682	B G26 S	310
2144 21 10		BW	COMBL, 1+X1	x	8	3687	V F63 0+1 1	310
2145 21 11		BW	RWDEXT, NEWEST	X	8	3695	V D83 V98 1	310
2146 21 12	*	U 1,	THE ENTRY TENED	,,	•			
2147 21 13		ATE CO	MMENTS CARD FOR UNKNOWN SUBROUTINES					
2148 21 14	*							
2149 21 15	UNKNWN	В	NOROT	Х	4	3703	B T75	310
2150 21 16	• • • • • • • • • • • • • • • • • • • •	SW	1+X1	Х	4	3707	, 0 + 1	311
2151 21 17		MCW	3+X1, MAINX+10	Х	7	3711	M 0+3 011	311
2152 21 18		В	SBROT	Х	4	3718	B 033	311
2153 21 19		В	COMBL	X	4	3722	B F63	311
2154 21 20	CEXIT	ĊS	CALLT	X	4	3726	/ -73	311
2155 21 21		CS		Х	1	3730	/	311
2156 21 22		CW	100	X	4	3731) 100	311
2157 21 23		MCW	19991, PREVS	Х	7	3735	M H75 H72	312
2158 21 24	CEXIT1		0	X	4	3742	В 000	312
2159 21 25	SBGRD	SBR	GRAND+3	Х	4	3746	H G57	312
2160 21 26		S	INDEX1+1	X	4	3750	\$ 090	312
2161 21 27	GRAND	BW	0,0+X2	Χ	8	3754	V 000 0-0 1	312
2162 21 28		S	'10', INDEX2+1	X	7	3762	S 108 095	312
2163 21 29		A	'l',INDEX1	X	7	3769	A H59 089	313

SEQ PG LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2164 21 30		В	GRAND	Х	4	3776	B G54		313
2165 21 31	CALLCD	CS	LMAINX	Х	4	3780	/ 086		313
2166 21 32		В	CTAPE	X	4	3784	B W50		313
2167 21 33		NOP	TDFEXT	Χ	4	3788	N T44		313
2168 21 34		MCW	CHARCS, MAINX+74	Х	7	3792	M U60 075		313
2169 21 35		SW	1	X	4	3799	, 001		313
2170 21 36		В	THRU	X	4	3803	B N82		314
2171 21 37	IOCSAV	DCW	=4	Х	4	3810			314
2172 21 38	CHAINX	MCW	PRI, MAINX+74	Х	7	3811	M H67 075		314
2173 21 39		В	WHYYY	Х	4	3818	B K97		314
2174 21 40	MIDLE	MCW	INDEX3, DECTB+X2	X	7	3822	M 099 UR2		314
2175 21 41		В	LOWER	X	4	3829	B V46		314
2176 21 42	ABOVE	MCW	INDEX3, DECTB+X2	Х	7	3833	M 099 UR2		314
2177 21 43		В	BELOW	Х	4	3840	B P94		315
2178 21 44		LTORG		Х			3844		
		DCW	181	Х	1	3844		LIT	315
			* N *	Х	1	3845		LIT	315
			1 1	X	3	3848		LIT	315
			171	X	1	3849		LIT	315
				X	1	3850		LIT	315
1874	SAVXL2		=03	X	3	3853		AREA	315
			DCW	X	3	3856		LIT	316
				X	2	3858		LIT	316
			111	X	1	3859		LIT	316
			1521	X	2	3861		LIT	316
			'510'	X	3	3864		LIT	316
			+10	X	2	3866		LIT	316
			1R1	X	1	3867		LIT	316
			131	X	1	3868		LIT	317
1070	DDEVE		1,1	X	1	3869		LIT	317
1978	PREVS		=03 •999•	X	3 3	3872 3875		AREA	317 317
2000			1B 1	X X	5 5	3880		LIT	317
2000			1)001	â	3	3883		LIT	317
			16901	â	3	3886		LIT	317
			15	x	2	3888		LIT	318
			1511	x	2	3890		LIT	318
			'015'	x	3	3893		LIT	318
			1041	X	2	3895		LIT	318
2063	SAVX3		=03	X	3	3898		AREA	318
2003	5A (A 5		11991	X	3	3901		LIT	318
			111	X	1	3902		LIT	318
			I9F	X	3	3905		LIT	319
			· M·	X	1	3906		LIT	319
			•10•	Х	2	3908		LIT	319
2179 21 45	*				-				
2180 21 46	* OUTI	PUT ARI	EA						
2181 21 47	#								
2182 21 48		ORG	3912	Х			3912		
2183 21 49	CUTPT	DA	1X86,G	X		3912	3997		319

SEQ PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
			DCW	1 1	x	1	3998		GMARK	320
2184 21	50	LOPUT	EQU	*-1	X		3997			
2185 21	51		ΕX		X			B 000		321
2186 21	52		FND	START	X			/ 700 080		324

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SEQ	PG	LIN	LABEL	OP.	OPERANDS		SFX CT	LOCN	INSTRUCTION	TYPE	CARD
					1/01 AUTOCOCC 0450 0 TOAUCLAT	00 1417744 4506704	•				
101 102		01	003	JOB CTL	1401 AUTOCODER-PASS 3-TRANSLAT 630 1	OK-INITIAL -AEKZION	3				
102		.03	*	CIL	030 1						
104		04	*EQUATI	FS							
105		05	*	0							
106		06	INTAPE	EQU	(1)6			(06			
107	1	07	OUTAPE		(U4			(U4			
108	1	08	SYSTAP		(U1			(U1			
109		09	INITAP		(U0			(UO			
110		10	XXXX	EQU	0000			0000			
111		11	PRINT	EQU	200			0200			
112		12	LIBRN	EQU	000			0000			
113		13	* ************************************	n E DUND	ANCV DOUTTNE						
114		14 15		KEUUNU	ANCY ROUTINE						
115 116		16	#	ORG	RTEND+1				2210		
117		17	TPERR	SBR	XL3		4	2210	H 099		4
118		18	ITEM	SBR	REDXT+3		4	2214	H K82		4
119		19		MZ	+9, XL3		7	2218	Y M60 099		4
120		20		MCW		BRING IN INSTRUCTION	7	2225	M 110 K73		4
121		21		MN	TPINS+3,BSP1+3	THAT CAUSED	7	2232	D K69 K49		4
122		22		MCW	TPINS+7, INST2+7	REDUNDANCY	7	2239	M K73 L82		4
123	1	23	BSP1	BSP	INITAP	BACKSPACE TAPE '	5	2246	U (UO B		5
124		24		BCE		Q. WRITE REDUNDANCY	8	2251	B L55 K73 W		5 5
125		25		MCW		INITIALIZE COUNTER	7	2259	M M60 M61		5
126		26	TPINS	RT	•	RE-READ	8	2266	M (UO 000 R		5
127		27		BER		Q. REDUNDANT AGAIN	5	2274	B K83 L		5
128		28	REDXT	В		EXIT	4	2279	B 000		5
129		29	RDERR	MN	TPINS+3,BSP2+3	BACKSPACE AGAIN	7	2283 2290	D K69 K93 U (U0 B		6 6
130 131		30 31	BSP2	BSP S		REDUCE COUNTER	5 7	2295	S M62 M61		6
132		32		S BWZ		Q. 10 SUCCESSIVE READ		2302	V K66 M61 B		6
133		33		MN	TPINS+3,TPHLT+6	W. IO SOCCESSIVE READ	7	2310	D K69 L23		6
134		34	TPHLT	Н		HALT	7	2317	. 000 390		7
135		35		MCW	TPINS+7,*+8		7	2324	M K73 L38		7
136		36		RT		RE-READ	8	2331	M (UO 000 R		7
137		37		BSS		DETERMINE OPTION	5	2339	B K46 E		7
138	1	38		Н	XXXX,302	HALT AGAIN	7	2344	. 000 302		7
139	1	39		В		EXIT	4	2351	B K79		7
140		40	WRTRD	SKP		ERASE TAPE	5	2355	U (U1 E		8
141		41		BCE		Q. FIFTY SKIPS	8	2360	B L92 M63 5		8
142		42		Α		INCREASE COUNTER	7	2368	A M62 M64		8
143		43	INST2	WT	· · · · · · · · · · · · · · · · · · ·	RE-WRITE	8	2375	M (UO 000 W		8
144		44		BER		Q. REDUNDANT AGAIN	5 4	2383 2388	B K46 L B K79		8 8
145 146		45 46	SBCTR	B S	REDXT WRTCR	RESET COUNTER	4	2392	S M64		9
147		47	30017	MN	TPINS+3, *+7	ALJET GOORTEN	7	2396	D K69 M09		9
T. 4.	*	• •		* * * * *			•		J 1107 1107		•

SEQ	PG	LIN	LABEL	OP	OPERANDS			SFX CT	LOCN	INSTRUCT10	N TYPE	CARD
148	1	48		н	XXXX,360		HALT	7	2403	. 000 360		9
149		49		В	INST2			4	2410	B L75		9
150		50	*	b	111312			•	2,10	5 (1)		•
151		51		E RECO	RD ROUTINE							
152		52	*									
153		53	NOISE	SBR	XL3			4	2414	н 099		9
154		54	HOIOL	SBR	NSXT+3			4	2418	H M52		9
155		55		MZ	+9,XL3			7	2422	Y M60 099		9
156		56	N2	BCE	4000-12+X3, XXXX	•	SCAN FOR GROUP MARK	8	2429	B IH8 000		10
157		57		CHAIN		•		_			MACRO	
158	•	,		BCE				1	2437	В	GEN	10
159				BCE				ī	2438	В	GEN	10
160				BCE				ī	2439	В	GEN	10
161				BCE				ī	2440	В	GEN	10
162				BCE				1	2441	В	GEN	10
163				BCE				ī	2442	8	GEN	10
164				BCE				1	2443	В	GEN	11
165				BCE				ī	2444	В	GEN	11
166				BCE				1	2445	В	GEN	11
167				BCE				ī	2446	В	GEN	11
168				BCE				1	2447	В	GEN	11
169				BCE				1	2448	В	GEN	11
170	1	58	NSXT	В	XXXX			4	2449	B 000		11
171		59	OBJCOR		131		OBJECT CORE SIZE CODE	1	2453			12
172		60	HIVAL	DCW	1 9991		HIGHEST OBJECT ADDRESS	5 5	2458			12
173		61	MANAM	DCW	1 = 1		EQUALS = OR A	1	2459			12
174		62		LTORG	#					2460		
				DCW	+9			1	2460		LIT	12
		125	RDCT		=01			1	2461		AREA	12
					+1			1	2462		LIT	12
		142	WRTCR		=02			2	2464		AREA	12
175	1	63	#									
176	1	64	*BEGIN	0	F MAIN LINE		·					
177	1	65	#									
178	1	66	BEGIN	RWD	INTAPE		REWIND INPUT TAPE	5		U (U6 R		13
179	1	67		RWD	5.		REWIND 5	5	2470	U {U5 R		13
180	1	68		CS	3999		CLEAR INPUT AREA	4	2475	/ 199		13
181	1	69		RTW	SYSTAP,001		READ LOWER HALF OF	8	2479	L (U1 001	R	13
182	1	70		NOP	0		PASS 3	4	2487	N 000		13
183	1	71		BER	TPERR			5	2491	B K10 L		13
184	1	72		SW	GMK1,GMK2		INITIALIZE GROUP MARKS	S 7	2496	, I89 187		13
185		73		CW	SYSMK2			4	2503) +03		14
186		74		CS	080		CLEAR READ AREA	4	2507	/ 080		14
187		75		SW	EQVADD		INITIALIZE TO UNDEF	4	2511	, A69		14
188		76		RWD	OUTAPE		RWD OUTPUT TAPE	5	2515	U (U4 R		14
189		77		MCW	+FREE+13,N2+6			7	2520	M R20 M35		14
190		78		MCW	'N',N3		CRIPPLE TEST FOR NOISE		2527	M R21 573		14
191		79		MCW	"N" *N4			7	2534	M R21 558	_	14
192		80		RT	5,FREE+1		READ IN MACRO FACTOR	8	2541	M (U5 101	R	15
193	1	81		В	NOISE		WHICH IS	4	2549	B M14		15

SEQ	PG LIN	LABEL	OP	OPERANDS		SFX CT	LOCN	INSTRUCTION	TYPE	CARD
244	2 25	INCBJ	MCW	FREE+22,OBJCOR	SAVE OBJECT MACH CODE	7	2797	M 122 M53		22
245	2 26		ZA	OBJCOR,XL1		7	2804	+ M53 089		22
246	2 27		S	+30,XL1+1		7	2811	S R91 090		22
247	2 28		A	XL1	CODE -HIVAL-	4	2818	A 089		22
248	2 29		MCW	OBJTBL+X1.HIVAL-3		7	2822	M R/1 M55		23
249	2 30		C	FREE+22, *3*	Q. OBJECT CORE GT 4K	7	2829	C 122 R47		23
250	2 31		BL	GETMN		5	2836	B 419 T		23
251	2 32		BCE	SETHI, FREE+24,1	Q. MA HARDWARE	8	2841	B Q99 124 1		23
252	2 33	0.511.405	8	IS4K		4	2849	B Q92		23
253	2 34	GENJOB		INTAPE		5	2853	U (U6 B		23
254	2 35		MCW	FREE+74, FREE+73	CENEDATE IOD CARD	7	2858	M 174 173		24
255	2 36		MCW	JOB ,FREE+20	GENERATE JOB CARD	7	2865	M R96 120		24
256	2 37		MCW	EDEC: 7/ EDEC: 15	DI ANIV ADEA	1 7	2872 2873	M M 174 115		24 24
257	2 38		MCW MCW	FREE+74,FREE+15	BLANK AREA	7	2880	M 114 115		24
258 259	2 39 2 40		B	CODJOB		1	2881	B 001		24
260	2 40	CHNAD	MCW	+SUBXL, INTXT+3	INITIALIZE EXIT	4 7	2885	M R99 463		24
261	2 42	IS4K	MCW	*A*, MANAM	INTITACTZE EXT	7	2892	M +00 M59		25
262	2 43	SETHI	MCW	*03*,HIVAL-3		7	2899	M +02 M55		25
263	2 44	SETTI	В	GETMN		4	2906	B 419		25
264	2 45	OBJTBL		1031		2	2911	0 117		25
265	2 46	COULDE	DCW	1071		2	2913			25
266	2 47		DCW	1111		2	2915			25
267	2 48		DCW	1151		2	2917			25
268	2 49		LTORG			_		2918		
	189		DCW	+FREE+13		3	2920	113	ADCON	26
				1N1		1	2921		LIT	26
	196	JOBLBL		=03		3	2924		AREA	26
				1011		3	2927		LIT	26
				'JOB'		3	2930		LIT	26
				+1		1	2931		LIT	26
				B		1	2932		LIT	26
				1 M 8		1	2933		LIT	27
				'CTL'		3	2936		LIT	27
	220	SVSZ		=03		3	2939		AREA	27
				11991		3	2942		LIT	27
				161		1	2943		LIT	27
	226	PHOLD		=01		1	2944		AREA	27
				151		1	2945		LIT	27
				141		1	2946		LIT	28
				131	6-75 60561F1504	1	2947		LIT	28
	238			'INCORRECT PROCESSOR MACHINE	SIZE SPECIFIED.	42	2989		LIT	30
	255			+30		2	2991		LIT	30
	255			108 1		5	2996 2999	634	LIT	30 30
	260			+SUBXL •A•		3	3000	034	ADCON LIT	30 30
				1031		2	3000		LIT	31
269	2 50	SYSMK2	חרש	1 1	SYSTEM GROUP MARK	1	3002		LII	31
270	2 51	SISHKE	XFR	000	SISTER GROOT MAIN	1	J00J	в 000		32
210	£ 71		W 11	~~~						J =

	SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX (СТ	LOCN	INSTRUCTION	TYPE	CARD
	271	2	52		JCB	1401 AUTOCODER-PASS 3 LEFT MAIN LINE -VERSION	1 3					
	272		53	*	•							
	273		54	*INITI	ALIZAT:	ION OF INDEX LOCATIONS						
	274		55	#								
	275	2	56			XL1,XL2,XL3					MACRO	
	276		01	XL1	EQU	089			0089		GEN	
	277		02	089	DCW	000		3	0089		GEN	35
	278		04	091	DC	00		2	0091		GEN	35
	279		05	XL2	EQU	094		_	0094		GEN	
	280		06	094	DCW	000		3	0094		GEN	35
	281		08	096	DC	00		2	0096		GEN	35
	282		09	XL3	EQU	099		•	0099		GEN	25
	283		10	099	DCW	000		3	0099 0100		GEN	35 35
	28 4 28 5	2	12 57	100	DC	0		1	0100		GEN	<i>3</i> 2
	286		5 <i>1</i> 58		EODM TA	NPUT AREA						
	287		59	*FNCC :	LOKA I	IFUI ANLA						
	288		60	•	ORG	101				0101		
	289		61	FREE	EQU	100			0100	0101		
	290		62	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	DA	1X86			0101	0186		35
	291		63			1,1			0101		FIELD	35
	292		64			19,19			0119		FIELD	35
	293		65			16,16			0116		FIELD	35
	294		66			6,6			0106		FIELD	36
	295		67			21,21			0121		FIELD	36
	296		68	ALTRNO		81,84			0184		FIELD	36
	297	2	69			85,85			0185		FIELD	36
,	298	2	70	GMK2	DC	1 1		1	0187	•		37
	299		71	*								
	300		72	*FIXED	FORM 1	INPUT AREA						
	301		73	#						***		
	302		74		ORG	333				0333		
	303		75	INPUT	EQU	*			0332	0/10		27
	304		76		DA	1X86			0333	0418	C1C10	37
	305		77			40,40			0372		FIELD	37 37
	306 307		78 79			17,17 28,28			0349 0360		FIELD	37 37
	30 <i>1</i>		80			39,39			0371		FIELD	38
	309		81			76,76			0408		FIELD	38
	310		82	*		10,10			0.00		1100	50
	311		83		IIPPER H	HALF OF PASS 3						
	312		84	#	0	INC. OF FROM D						
	313		85	GETMN	RTW	SYSTAP, BEGIN		8	0419	L (U1 M65 R		38
	314		86	J =	NOP	0		4	0427	N 000		38
	315		87		BER	TPERR		5	0431	B K10 L		38
	316		88		MCW	MANAM, MASYM-3		7	0436	M M59 B93		38
	317		89		RTW	SYSTAP, OVL2		8	0443	L (U1 626 R		38
	318	2	90		NOP	0		4	0451	N 000		39
	319		91		BER	TPERR		5	0455	B K10 L		39
	320	2	92	INTXT	В	NUREC		4	0460	B 626		39

SEQ PG	LIN	LABEL	OP	OPERANDS		SFX CT	LOCN	INSTRUCTION	TYPE	CARD
	93 94	# # GET	ETYEN I	FORM OVERLAY						
	95	* 01.1	IIVED	ORP OFFICE						
	96	GTFIX	RTW	SYSTAP, OVL2		8	0464	L (U1 626 R		39
	97		NOP	0		4	0472	N 000		39
	98		BER	TPERR		5	0476	B K10 L		39
	99		BSP	SYSTAP		5	0481	U (U1 B		39
328 3	00		BSP	SYSTAP		5	0486	U (U1 B		40
	01		BW	PROFIX, FREESW		8	0491	V 661 H09 1		40
	02		В	RSTMOD		4	0499	B 638		40
	03	*								
	04		FREE F	ORM OVERLAY						
	05	*	0.711	CUCTIO DUI D		0	0502	1 (111 (24 0		4.0
	06	GTFRE	RTW	SYSTAP, OVL 2		8 4	0503 0511	L (U1 626 R N 000		40 40
	07		NOP BER	O TPERR		5	0515	B K10 L		40
	08		B	PSTNU		4	0520	B 630		40
	10	*	U	F3 1 NO		•	0,720	5 0 5 0		,,
	11		ROUTINE							
	12	*								
	13	GET	SBR	GETXT+3		4	0524	H 553		41
	14		В	RDTAP		4	0528	B 554		41
	15		MCW	INAREA+79, FREE+80		7	0532	M 182 180		41
344 3	16		CHAIN	4					MACRO	
345			MCW			1	0539	М	GEN	41
346			MCW			1	0540	M	GEN	41
347			MCW			1	0541	M	GEN	41
348			MCW	**************************************		1	0542	M 100 100	GEN	41
	17		MCW	INAREA+85, FREE+86		7	0543 0550	M 188 186 B 000		42
	18	GETXT	B con	XXXX	READ TAPE	4	0554	H 585		42 42
	19	RDTAP	SBR MCW	RDXT+3 +INAREA+12,N2+6	READ TAPE	7	0558	M R43 M35		42
	21	N4	RT	INTAPE, INAREA		8	0565	M (U6 103 R		42
	22	N3	В	NOISE	CHECK FOR NOISE	4	0573	B M14		42
	23	11.5	BER	TPERR		5		B K10 L		42
	24	RDXT	В	XXXX		4	0582	B 000		43
	25	*								
	26	*PUT F	ROUTINE							
359 3	27	*								
	28	PUT	SBR	PUTXT+3		4	0586	H 625		43
	29		CW	FREE+21		4	0590) 121		43
	30		WT	OUTAPE, FREE+1		8	0594	M (U4 101 W		43
	31		NCP	0		4	0602	N 000		43
	32		BER	TPERR		5	0606	B K10 L		43
	33		SW	FREE+21	INCREASE ALTER NUMBER	4 7	0611 0615	, 121 A R44 18 4		43 44
	34 35	PUTXT	A B	+1,ALTRNO XXXX	INCREMSE METER NUMBER	4	0622	B 000		44
	36	OVL2	DCW	0		1	0626	5 000		44
	37	U 7 L L	DCW	1 1	SYSTEM GROUP MARK	î	0627			44
	38		XFR	0		_	. = = -	В 000		45

SEQ PG LIN LABEL OP OPERANDS

SFX CT LOCN INSTRUCTION TYPE CARD

SEQ	PG LI	N LABEL	OP	OPERANDS				SFX CT	LOCN	INSTRUCTION TY	PE CARD
371	3 39		JOB	1401 AUTOCODER-PASS 3	PROCESS	FREE FORM	-VERSION	3			
372	3 40	*		OF NEW FREE FORM RECORD	ANALVET	r					
373 374	3 41 3 42	***	MNING	OF NEW FREE FORM RECORD	ANALTSI	3					
375	3 43	*	ORG	0 V L2						0626	
376	3 44	NUREC	В	PUT				4	0626	B 586	48
377	3 45	PSTNU	В	GET				4	0630	B 524	48
378	3 46	SUBXL	SW	MODESW				4	0634	, +02	48
379	3 47		CW	FREESW				4	0638) H09	48
380	3 48		BCE	NUREC, FREE+6, *				8	0642	B 626 106 *	48
381	3 49		BCE	REG, FREE+75,				8	0650	B 991 175	48
382	3 50		BCE	REG, FREE+75, L				8	0658	B 991 175 L	49
383	3 51		BCE	NUREC, FREE+75, S				8	0666	8 626 175 S	49
384	3 52		BCE	NUREC, FREE+75, Z				8	0674	B 626 175 Z	49
385	3 53		BCE	NUREC, FREE+85,R				8	0682	B 626 185 R C 118 R47	49
386 387	3 54 3 55		C BCE	FREE+18, "CHA" CKCHN, FREE+75, C				7 8	0690 0697	B 722 175 C	49 50
388	3 56		BCE	CKCHN, FREE+75, Y				8	0705	8 722 175 Y	50 ·
389	3 57		BU	NUREC				5	0713	B 626 /	50
390	3 58		В	PRCHN				4	0718	8 727	50
391	3 59	CKCHN	BU	REG				5	0722	B 991 /	50
392	3 60	PRCHN	ZA	FREE+22, WAREA2				7	0727	+ 122 A14	50
393	3 61		BCE	*+5,WAREA2,+				8	0734	B 746 A14 +	51
394	3 62		В	*+8				4	0742	B 753	51
395	3 63		ZA	WAREA2-1, WAREA2				7	0746	+ A13 A14	51
396	3 64		BCE	*+5,FREE+75,C				8	0753	8 765 175 C	51
397 398	3 65 3 66		B MC14	*+8 'S',FREE+75				4 7	0761 0765	B 772 M R48 175	51 51
399	3 67		MCW BCE	*+5,FREE+75,Y				8	0772	B 784 175 Y	52
400	3 68		8	*+8				4	0780	B 791	52
401	3 69		MCW	*Z*,FREE+75				7	0784	M R49 175	52
402	3 70		В	PUT				4	0791	8 586	52
403	3 71		С	WAREA2,+00		ACCOUNT FO	R CHAIN OO	7	0795	C A14 R51	52
404	3 72		BL	* +5				5	0802	B 811 T	52
405	3 73		В	PSTNU				4	0807	B 630	52
406	3 74		MCW	FREE+75, HLDCD=1				7	0811	M 175 R52	53
407	3 75		MCW	'C',FREE+75				7	0818	M R53 175	53
408	3 76		BCE	BLNKX, HLDCD, R				8	0825	8 848 R52 R	53
409 410	3 77 3 78		BCE MCW	BLNKX,HLDCD,S 'Y',FREE+75				7	0833 0841	B 848 R52 S M R54 175	53 53
411	3 79	BLNKX	MCW	BLNK2, FREE+74				7	0848	M A55 174	54
412	3 80	DEMAX	MCW	FREE+74				. 4	0855	M 174	54
413	3 81		MCW	SAVOP				4	0859	M R88	54
414	3 82		MCW					1	0863	М	54
415	3 83		MCW					1	0864	М	54
416	3 84		MCW	FREE+74,FREE+5		BLANK PAGE	/LINE	7	0865	M 174 105	54
417	3 85	CHNLP	В	PUT				4	0872	B 586	54
418	3 86		MCW	FREE+74,FREE+11		BLANK LABE	L FIELD	7	0876	M 174 111	55
419	3 87		S	+1,WAREA2				7	0883	S R44 A14	55
420	3 88		С	WAREA2,+00				7	0890	C A14 R51	55

SEQ	PG LIN	LABEL	OP	OPERANDS		SFX CT	LOCN	INSTRUCTION TYPE	CARD
421	3 89		BL	CHNLP		5	0897	B 872 T	55
422	3 90		В	PSTNU		4	0902	B 630	55
423	3 91	GENPS	MCW	*+1 *,FREE+15		7	0906	M R57 115	55
424	3 92		В	PUT		4	0913	B 586	56
425	3 93		MCW	FREE+73, FREE+72	TO HIGHEST ADDRESS O	F 7	0917	M 173 172	56
426	3 94		MCW	*C*,FREE+75	OBJECT CORE	7	0924	M R53 175	56
427	3 95		MCW	HIVAL, FREE+25		7	0931	M M58 125	56
428	3 96		MCW	*EQU *		4	0938	M R62	56
429	3 97		MCW			1	0942	M	56
430	3 98		MCW	'\$HIVAL +P '		4	0943	M R72	56
431	3 99		MCW	FREE+73		4	0947	M 173	57
432	4 00		MCW	+NUREC, GENPS+3		7	0951	M R 75 909	57
433	4 01		MCW	B, ISHIV		7	0958	M R76 969	57
434	4 02		В	NUREC		4	0965	B 626	57
435	4 03	ISHIV	NOP	PSTNU		4	0969	N 630	57
436	4 04		MCW	HIVAL, FREE+25	SET NEW HIGHEST VALUE	7	0973	M M58 125	57
437	4 05		MCW	'B',PSSW2			0980	M R76 ‡37	58
438	4 06		В	TSTRE		4	0987	B +53	58
439	4 07	REG	S	XL3+1		4	0991	S 100	58
440	4 08		2			1	0995 0996	S	58 58
441	4 09		5	EREE+18.* *		1 7	0997	S C 118 R79	58
442 443	4 10 4 11		BU	FREE+18, ' 'SVUP3		5	1004	B +17 /	58
444	4 12		BCE	TSTRE, FREE+19,		8	1004	B ‡53 119	59
445	4 13	SVUP3	MCW	FREE+20, SAVOP=9		7	1017	M 120 R88	59
446	4 14	34013	MCW	! NEE - 20 / 3A / C1 - /		i	1024	M	59
447	4 15		C	FREE+11, '\$HIVAL'	Q. HIVAL EQUATE PRESN	_	1025	C 111 R94	59
448	4 16		BE	ISHIV		· 5	1032	8 969 S	59
449	4 17	PSSW2	NOP	TSTRE		4	1037	N ‡ 53	59
450	4 18		C	FREE+10,*\$P *	Q. ARITH MACRO PRESEN		1041	C 110 R99	59
451	4 19		BE	GENPS		5	1048	B 906 S	60
452	4 20	TSTRE	BCE	ISREA, FREE+85, R		8	1053	8 +96 185 R	60
453	4 21		В	TLUOP	LOOKUP MNEMONIC	4	1061	B M65	60
454	4 22	STFUN	MCW	FREE+15, SAVOP-5		7	1065	M 115 R83	60
455	4 23		BW	NUREC, EQVADD	Q. INSTRUCTION	8		V 626 A69 1	60
456	4 24		C	FREE+15, 13 1		7	1080	C 115 +01	60
457	4 25		BE	EOJ		5	1087	B Q75 S	61
458	4 26		В	NUREC		4	1092	B 626	61
459	4 27	ISREA	SW	FREE+12		4	1096	, 112	61
460	4 28		LCA	FREE+15, EQVADD		7	1100	L 115 A69	61
461	4 29		CW	FREE+12		4	1107) 112	61
462	4 30		BCE	TYPCL, FREE+15,+		8	1111	B /26 115 +	61
463	4 31		CHAIN	3		1	1110	MACRO	<i>t</i> 1
464			BCE			1	1119		61
465			BCE			1	1120	B GEN	62
466	4 30		BCE	CTELIN		1	1121 1122	B GEN B ‡ 65	62 62
467 468	4 32 4 33	TYPCL	B Sw	STFUN EQVADD-2		4	1126	• A67	62
469	4 34	IITCL	BCE	STFUN, FREE+12,+		8	1130	B +65 112 +	62
470	4 35		SW	EQVADD-1		4	1138	, A68	62
710	7 11		JR	Ediuno I		т.		, 1100	~ ~

SEQ PG LIN LABEL	OP.	OPERANDS		SFX CT	LOCN	INSTRUCTION TYPE	CARD
471 4 36	BCE	STFUN, FREE+13,+		_		B \$65 113 +	62
472 4 37	SW	EQVADD		4		, A69	63
473 4 38	В	STFUN		4	1154	B ‡ 65	63
474 4 39	DCW	0		1	1158		63
475 4 40	DCW	1 1	SYSTEM GROUP MARK	1	1159		63
476 4 41	XFR	0				в 000	64

3734L

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1401 AUTOCODER-PASS 3 PROCESS FREE FORM -VERSION 3

SEQ	PG	LIN	LABEL	OP	OPERANDS		SFX CT	LOCN	INSTRUCTION	ТүРЕ	CARD
477 478	4	42 43		JOB ORG	1401 AUTOCODER-PASS 3 PROCESS OVL2	FIX FORM -VERSION	3		0626		
479		44	*								
480		45		NING OF	NEW FIXED FORM RECORD ANALYSI	S					
481 482		46 47	* ENTSPS	۵	PUT	PUT LAST RECORD	4	0626	B 586		67
483		48	ENISES	.₽ BW	GTFRE, FREESW	Q. FREE DONE IN FIXED		0630	V 503 H09 1		67
484		49	RSTMOD		MODESW=1, ABSW	RESET SWITCHES	7	0638) +02 A10		67
485		50		В.	RDTAP	GET A RECORD	4	0645	B 554		67
486		51		MCW	INAREA+79, INPUT+80	MOVE TO FIXED FORM	7	0649	M 182 412		67
487	4	52		CHAIN						MACRO	
488				MCW			1	0656	M	GEN	67
489				MCW			1	0657	M	GEN	67
490				MCW			1	0658	M	GEN	68
491				MCW			1	0659	M	GEN	68
492	,		200014	MCW	TAIDUT. OO EDEE. OO	MOVE IDENTIFICATION	1	0660	M M 412 100	GEN	68
493 494		53 54	PROFIX	MCW	INPUT+80, FREE+80 BLANK, FREE+75	MOVE IDENTIFICATION SET OPERAND PORTION	7 7	0661 0668	M 412 180 M A54 175		68 68
495		55		MCW	FREE+75	OF -FREE- TO BLANKS	4	0675	M 175		68
496		56		MCW	FREE+75, FREE+20	SET BALANCE TO BLANK	7	0679	M 175 120		68
497		57		MCW	1 That is 1 is y 1 that is 1 is 0		i	0686	M		69
498		58		MCW			1	0687	M		69
499		59		MCW	INPUT+82, FREE+86	BLANK CODE POSITIONS	7	0688	M 414 186		69
500	4	60		MCW	INPUT+13,FREE+11	MOVE LABEL AND PG/LIN	E 7	0695	M 345 111		69
501		61		MCW	INPUT+5	NO TO -FREE-	4	0702	M 337		69
502		62		BCE	COMCRD, INPUT+8,*	Q. COMMENTS CARD	8	0706	B Y71 340 *		69
503		63		BCE	LBERR, FREE+11,,	CHECK FOR INVALID	8	0714	B 778 111 ,	MACDO	69
504	4	64		CHAIN	4	CHARACTERS IN LABELS	_	0722	a	MACRO GEN	70
505 506				BCE BCE			1	0723	8 B	GEN	70
507				BCE			1	0724	В	GEN	70
508				BCE			ī	0725	8	GEN	70
509	4	65		BCE	LBERR, FREE+10,-		8	0726	B 778 110 -		70
510		66		CHAIN						MACRO	
511				BCE			1	0734	В	GEN	70
512				BCE			1	0735	В	GEN	70
513				BCE			1	0736	8	GEN	71
514		_		BCE			1	0737	В	GEN	71
515		67		BCE	LBERR, FREE+10,=		8	0738	8 778 110 =	MACDO	71
516	4	68		CHAIN	4		1	0744	n	MACRO	71
517 518				BCE BCE			1	0746 0747	B B	GEN GEN	71 71
519				BCE			1	0748	В	GEN	71
520				BCE			ī	0749	8	GEN	71
521	4	69		BCE	LBERR, FREE+10,+		8	0750	8 778 110 +		72
522		70		CHAIN			_	_		MACRO	-
523				BCE			1	0758	В	GEN	72
524				BCE			1	0759	В	GEN	72
525				BCE			1	0760	В	GEN	72
526				BCE			1	0761	В	GEN	72

1401 AUTOCODER	-PASS 3	PROCESS	FIX	FORM
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SEQ	PG LIN	LABEL	OP	OPERANDS		SFX CT	LOCN	INSTRUCTION	TYPE	CARD
52 7 528	4 71 4 72		BCE CHAIN	LBERR, FREE+10, #		8	0762	B 778 110 #	MACRO	72
529	7 12		BCE	•		1	0770	В	GEN	72
530			BCE			ī	0771	В	GEN	73
531			BCE			1	0772	В	GEN	73
532			BCE			1	0773	В	GEN	73
533	4 73		В	BCK1		4	0774	B 798		73
534	4 74	LBERR	CS	332		4	0778	/ 332		73
535	4 75		CS			1	0782	/		73
536	4 76		MCW	ILLEGAL LABEL - SEQUENCE NUM	BER*,231	7	0783	M +33 231		73
537	4 77		MCS	ALTRNO.236		7	0790	Z 184 236		74
538	4 78	5641	W	THE	0 467444 00 6005	1	0797	2		74
539	4 79	BCK1	C	INPUT+15, BLNK2	Q. ACTUAL OP CODE	7	0798	C 347 A55		74
540	4 80		BE	ABSFIX	PRESENT IN FIXED FOR	M 5	0805	B S70 S		74
541	4 81		MCW	BLNK2,SAVCP INPUT+16		4	0810 0817	M A55 R88 M 348		74 74
542 543	4 82 4 83		MCW MCW	INPUT+16, FREE+18	MOVE MNEMONIC TO FREE	7	0821	M 348 118		74
544	4 84	TLUFIX		XL3+1	RESET INDEX LOCATIONS	4	0828	S 100		75
545	4 85	TEUFIX	S	XE3+1	TO ZERO	ì	0832	S		75
546	4 86		Š		TO ZENO	î	0833	Š		75
547	4 87		В	TLUOP	LOOKUP MNEMONIC	4	0834	B M65		75
548	4 88		BW	FIXINS, EQVADD	Q. INSTRUCTION	8	0838	V 854 A69 1		75
549	4 89		BCE	FOUND, EQVADD,	Q. CONTROL OP	8	0846	B T40 A69		75
550	4 90	*		•						
551	4 91	# PROCI	ESS IN	STRUCTION						
552	4 92	*								
553	4 93	FIXINS		LKNOP, INPUT+17,	Q. A OPERAND	8	0854	B 974 349		75
554	4 94		BCE	FIXALF, INPUT+17,	Q. ALPHA LITERAL	8	0862	B /84 349 1		76
555	4 95		8	SCAN	SCAN A OPERAND	4	0870	B Z09		76
556	4 96	CKB	BCE	CKMOD, INPUT+28,	Q. B OPERAND	8	0874	8 950 360		76
557	4 97		A	+1,XL2	MOVE COMMA TO FREE	7	0882	A R44 094		76
558 550	4 98		MCW	',',FREE+21+X2	TO SEPARATE OPERANDS	7 7	0889	M +34 1K1		76 77
559	4 99		A	+1,XL2		7	0896 0903	A R44 094 M +37 089		77 77
560 561	5 00 5 01		MCW BCE	'011',XL1 FIXALF,INPUT+28,'	Q. ALPHA LITERAL	8	0910	B /84 360 1		77
562	5 02		В	SCAN	SCAN B OPERAND	4	0918	B Z09		77
563	5 03	CKOP	C	INPUT+16,'B	Q. BRANCH INSTRUCTION	7	0922	C 348 +40		77
564	5 04	O.C.	BE	MAKBCE		5	0929	B #40 S		77
565	5 05		C	INPUT+16, B'	Q. ACTUAL BRANCH INST	7	0934	C 348 +43		78
566	5 06		BE	MOVMOD	•	5	0941	B #18 S		78
567	5 07		В	LKNOP		4	0946	B 974		78
568	5 08	CKMOD	C	INPUT+16, 'B '	Q. BRANCH INSTRUCTION	7	0950	C 348 +40		78
569	5 09		ВE	ALTROP		5	0957	B ‡51 S		78
570	5 10		C	INPUT+16, B'	Q. ACTUAL BRANCH INST	7	0962	C 348 +43		78
571	5 11		BE	ALTROP		5	0969	B #51 S		79
572	5 12	LKNOP	C	INPUT+16, "NCP"	Q. NOP INSTRUCTION	7	0974	C 348 +46		79
573	5 13		BE	CKNOP	O ACTUAL OR CORE	5	0981	B /46 S		79 70
574	5 14		BW	PICKUP, ABSW	Q. ACTUAL OP CODE	8	0986	V #29 A10 1		79 70
575 576	5 15	TCMOD	BCE	PICKUP, INPUT+39,	Q. D CHARACTER	8 8	0994 1002	B #29 371 B #18 115		7 9 80
576	5 16	ISMOD	BCE	MOVMOD, FREE+15,	Q. ILLEGAL OP	ō	1002	0 +10 113		00

SEQ	PG LIN	LABEL	OP	OPERANDS	SF	x ct	LOCN	INSTRUCTION	TYPE C	ARD
577	5 17		BWZ	IOTYP,FREE+15,2	Q. I/O INSTRUCTION	8	1010	V /54 115 2		80
578	5 18	MOVMOD	MCW	INPUT+39,FREE+23+X2	MOVE D CHARACTER TO	7	1018	M 371 1K3		80
579	5 19		MCW	1,1	FREE AREA	4	1025	M +34		80
580	5 20	PICKUP	MCW	INPUT+55,FREE+72	PICKUP COMMENTS	7	1029	M 387 172		80
581	5 21		В	ENDFIX		4	1036	B 626		80
582	5 22	MAKBCE	MCW	*BCE*,FREE+18	MOVE -BCE- MNEMONIC	7	1040	M +49 118		81
583	5 23		В	ISMOD	TO OPERATION FIELD	4	1047	B +02		81
584	5 24	ALTROP	BCE	PICKUP, INPUT+39,	Q. D CHARACTER, I.E.,	8	1051	8 +29 371		81
585	5 25		MCW	'BIN', FREE+18	UNCONDITIONAL BRANCH	7	1059	M +52 118		81
586	5 26		MCW	*+ B*,FREE+15	SET FIVE CHAR BRANCH	7	1066	M +55 115		81
587	5 27		S	XL1+1		4	1073	S 090		81
588	5 28		MCW	BLNK2, FREE+20		7	1077	M A55 120		82
589	5 29	TLUBIN	C	BINTBL+X1, INPUT+39	SEARCH 5-CHARACTER	7	1084	C H/4 371		82
590	5 30		BE	BINFND	BRANCH TABLE FOR	5	1091	B /15 S		82
591	5 31		BCE	MOVMOD, BINTBL+5+X1,	APPROPRIATE UNIQUE	8	1096	B #18 H/9		82
592	5 32		Α	+5,XL1	MNEMONIC. IF NOT	7	1104	A +56 089		82
593	5 33		В	TLUBIN	PRESENT LEAVE	4	1111	B #84		82
594	5 34	BINFND	MCW	BINTBL-1+X1,FREE+19	MNEMONIC -BIN-	7	1115	M H/3 119		83
595	5 35		MCW			1	1122	M		83
596	5 36		С	FREE+18, 'BSS'	Q. BRANCH SENSE SWITCH	7	1123	C 118 +59		83
597	5 37		BE	MOVMOD		5	1130	B #18 S		83
598	5 38		MCW	INPUT+39, FREE+14	PICKUP D CHARACTER	7	1135	M 371 114		83
599	5 39		В	PICKUP		4	1142	B +29		83
600	5 40	CKNOP	BCE	PICKUP, INPUT+39,		8	1146	B #29 371		83
601	5 41	IOTYP	MCW	INPUT+39,FREE+14	CODE I/O INSTRUCTIONS	7	1154	M 371 114		84
602	5 42		MCW	1+1	IN ACTUAL IN	4	1161	M +60		84
603	5 43		MCW	INPUT+39, FREE+20	OPERATION FIELD	7	1165	M 371 120		84
604	5 44		MCW	FREE+15		4	1172	M 115		84
605	5 45		MCW	BLANK3		4	1176	M A56		84
606	5 46		В	PICKUP		4	1180	B +29		84
607	5 47	FIXALF	BCE	ENDALF, INPUT+27+X1,	SCAN FOR ENDING ' SIGN	8	1184	B S18 3V9 1		84
608	5 48		CHAIN	8 .					MACRO	
609			BCE			1	1192	В	GEN	85
610			BCE			1	1193	В	GEN	85
611			BCE			1	1194	В	GEN	85
612			BCE			1	1195	В	GEN	85
613			BCE			1	1196	В	GEN	85
614			BCE			1	1197	В	GEN	85
615			BCE			1	1198	В	GEN	85
616			BCE			1	1199	В	GEN	86
617	5 49	VALUE	A	+1,XL2	PROCESS STATEMENT AS	7	1200	A R44 094		86
618	5 50		MCW	'\$\$',FREE+21+X2	UNPROCESSABLE ALPHA	7	1207	M +62 1K1		86
619	5 51		В	WHCHOP	LITERAL ILLEGAL OPND	4	1214	B \$54		86
620	5 52	ENDALF	SBR	WAREA3	PICKUP LITERAL AND	4	1218	H A15		86
621	5 53		S	+VALUE+2, WAREA3	MOVE TO FREE FORM	7	1222	S +65 A15		86
622	5 54		ZS	WAREA3	AREA	4	1229	- A15		86
623	5 55		A	WAREA3,XL1		7	1233	A A15 089		87
624	5 56		A	WAREA3,XL2		7	1240	A A15 094		87
625	5 57		MCW	INPUT+17+X1,FREE+21+X2		7	1247	M 3U9 1K1		87
626	5 58	WHCHOP	С	XL1,'011'	EXIT ON BASIS OF WHICH	7	1254	C 089 +37		87

B 626

676 6 08

3735L

B Z09

PAGE

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FORM AREA

6 58

726

В

SCAN

101

101

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MACRO GEN

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*SCAN ROUTINE WHICH CONVERTS FIXED FORM RECORDS INTO FREE FORM

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776 7 01

SEQ	PG LIN	LABEL	OP	OPERANDS		SFX CT	LOCN	INSTRUCTION TYPE	CARD
777	7 02	SCAN	SBR	SCNXT+3		4	1909	H J20	107
778	7 03	•••	S	XL3+1	RESET INDEX 3	4	1913	S 100	107
779	7 04	LOOP1	BCE	CK1BK, INPUT+18+X1,	Q. BLANK CHARACTER	8	1917	B Z62 3V0	107
780	7 05	CXL1	С	XL3, *05*	Q. END OF ADDRESS	7	1925	C 099 A43	107
781	7 06		BE	NDOPD		5	1932	B Z86 S	107
782	7 07		A	+1,XL1	INCREASE ALL INDEX	7	1937	A R44 089	107
783	7 08		A	+1,XL2	REGISTERS	7	1944	A R44 094	108
784	7 09		Α	+1,XL3		7	1951	A R44 099	108
785	7 10		В	LOOP1		4	1958	B Z17	108
786	7 11	CK1BK	C	XL3, 1041	TOLERATE ONE BLANK	7	1962	C 099 A45	108
787	7 12		BE	NDOPD	IN ADDRESS	5	1969	B Z86 S	108
788	7 13		BCE	*+5, INPUT+19+X1,		8	1974	B Z86 3V1	108
789	7 14		В	CXL1	MOUS ACCESSOS CONTROL	4	1982	8 Z25	109
790	7 15	NDOPD	MCW	INPUT+17+X1,FREE+21+X2	MOVE ADDRESS PORTION	7	1986	M 3U9 1K1	109
791	7 16		C	XL1,'011'	TO FREE FORM AREA	7	1993	C 089 +37	109
792	7 17		S	XL1+2		4	2000	\$ 091	109
793	7 18		ВН	*+8		5	2004	B -16 U	109
794	7 19		MCW	'011',XL1	O NO CHARACTER ADI	7	2009	M +37 089 B J88 3V5	109
795 796	7 20		BCE	CKLIT2, INPUT+23+X1,	Q. NO CHARACTER ADJ ASSURE CHAR ADJ	8 8	2016 2024	V J21 3V5 K	110
196 797	7 21 7 22		BWZ MCW	MKMIN,INPUT+23+X1,K "+",INPUT+23+X1	+ OR -	7	2024	M +60 3V5	110 110
798	7 23	RTN2	SW	INPUT+24+X1, INPUT+23+X1	PROCESS CHARACTER	7	2039	, 3V6 3V5	110
799	7 24	KINZ	A	BLANK, INPUT+26+X1	ADJUSTMENT	7	2046	A A54 3V8	110
800	7 25		Â	+4,XL2	ADJUSTNERT	7	2053	A A46 094	111
801	7 26		MCW	INPUT+26+X1,FREE+21+X2		7	2060	M 3V8 1K1	111
802	7 27		MCW	IM OT LOUNTY! NEE 'EE'NE		i	2067	M	111
803	7 28		CW	INPUT+24+X1, INPUT+23+X1		7	2068) 3V6 3V5	111
804	7 29	NOADJ	BCE	FIXLIT, INPUT+17+X1,+	Q. LITERAL	8	2075	B J32 3U9 +	111
805	7 30		BCE	FIXLIT, INPUT+17+X1,-		8	2083	B J32 3U9 -	111
806	7 31		BCE	SCNXT, INPUT+27+X1,	Q. INDEXING	8	2091	B J17 3V9	112
807	7 32		Α	+3,XL2	PROCESS INDEXING	7	2099	A A47 094	112
808	7 33		MN	INPUT+27+X1,FREE+21+X2		7	2106	D 3V9 1K1	112
809	7 34		MCW	1 + X 1		4	2113	M A49	112
810	7 35	SCNXT	В	XXXX	EXIT	4	2117	В 000	112
811	7 36	MKMIN		'-',INPUT+23+X1	SET CHAR ADJ SIGN	7		M A50 3V5	112
812	7 37		8	RTN2	TO MINUS	4	2128	B -39	113
813	7 38	FIXLIT	BCE	NOT11, INPUT+27+X1,	PROCESS REMAINDER OF	8	2132	B J58 3V9	113
814	7 39		A	+1,XL2	FIXED FORM NUMERIC	7	2140	A R44 094	113
815	7 40		MN	INPUT+27+X1,FREE+21+X2	LITERAL	7	2147	D 3V9 1K1	113
816	7 41		8	SCNXT		4	2154	B J17	113
817	7 42	NOT11	BCE	SUBT, INPUT+26+X1,		8	2158	B J70 3V8	113
818	7 43	CHOT	В	SCNXT		4	2166	B J17	114
819	7 44	SUBT	A	'199',XL1		7	2170	A A53 089	114
820	7 45		A	11991,XL2		7	2177 2184	A A53 094	114 114
821 822	7 46 7 47	CKLIT2	B	NOT11 SCNXT,INPUT+17+X1,+	Q. LITERAL	4 8	2188	B J58 B J17 3U9 +	114
823	7 48	CKLIIZ	BCE	SCNXT, INPUT+17+X1,-	M. PIIFUMF	8	2196	B J17 309 -	114
824	7 49		В	NOADJ		4	2204	B -75	115
825	7 50		DCW	0		1	2208		115
826	7 51	SYSMK1		ĭ	SYSTEM GROUP MARK	i	2209		115

SEQ PG LIN LAB	L OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
827 7 52 828 7 53 RTE	XFR ID EQU	•		2209	в 000	116

1401 AUTOCODER-PASS 3 PROCESS FIX FORM -VERSION 3 3735L

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878 8 03 * PROCESS ILLEGAL OPERATION CODE

SEQ	PG LI	N LABEL	OP	OPERANDS		SFX CT	LOCN	INSTRUCTION TYPE	CARD
829	7 54		JOB	1401 AUTOCODER-PASS 3	RIGHT MAIN LINE -VERSION	3			
830	7 55	*							
831	7 56	*TABLE	LOOKU	P OF MNEMONIC OP CODE					
832	7 57	*						24.5	
833	7 58	****	ORG	BEGIN			2445	2465	210
834	7 59	TLUOP	SBR	TLUXT+3	O ACTUAL	4	2465	H 046	119
835	7 60		C	FREE+18, BLANK3=3	Q. ACTUAL	<i>!</i>	2469 2476	C 118 A56	119
836	7 61		BE	ABSCOD	OP CODE	5 7	2410	B P55 S M 118 094	119 119
837 838	7 62 7 63		MLC	FREE+18,XL2 FREE+18,XL2-1		7	2488	A 118 093	119
839	7 64		A A	FREE+18, XL2-2		7	2495	A 118 092	119
840	7 65		Ä	FREE+16, XL2	TABLE LOOKUP	7	2502	A 116 094	120
841	7 66	SUB1	Ŝ	+5500, XL2+1	USES ADDRESS	7	2509	S A60 095	120
842	7 67	3001	BWZ	SUB1, XL2+1, B	CONVERSION TECHNIQUE	8	2516	V NO9 095 B	120
843	7 68			OPND-549+X2, EQVADD=9	out the team team team	7	2524	L BN9 A69	120
844	7 69		SAR	GETOP+3		4	2531	Q N42	120
845	7 70		S	XL2+2		4	2535	\$ 096	120
846	7 71	GETOP	_	XXXX,EQVADD	SEARCH TABLE FOR	7	2539	L 000 A69	121
847	7 72	02.0.	SAR	GETOP+3	MNEMONIC	4	2546	Q N42	121
848	7 73		BCE	BADOP, EQVADD, 1	Q. OP NOT IN TABLE	8	2550	B P28 A69 '	121
849	7 74		C	EQVADD, FREE+18	Q. OP CODE FOUND	7	2558	C A69 118	121
850	7 75		BU	GETOP		5	2565	B N39 /	121
851	7 76		LCA	EQVADD-3, EQVADD	SHIFT TABLE FUNCTION	7	2570	L A66 A69	121
852	7 77		C	'N ', EQVADD	Q. ENTER CARD	7	2577	C A71 A69	122
853	7 78		BE	ENTER		5	2584	B 047 S	122
854	7 79		С	EQVADD, 'B '	Q.MLC, MLCWA TYPE	7	2589	C A69 A73	122
855	7 80		BE	SPECIN		5	2596	B 083 S	122
856	7 81		C	EQVADD, 12 1	Q. RAMAC INSTN	7	2601	C A69 A75	122
857	7 82		BE	SPECIN		5	2608	B 083 \$	122
85 8	7 83	SAVCOD	MCW	EQVADD, FREE+15	PLACE TABLE FUNCTION	7	2613	M A69 115	123
859	7 84		SBR	XL3	ON RECORD PRECEDED BY	Y 4	2620	н 099	123
860	7 85		С	XL3,+FREE+11	A PLUS SIGN	7	2624	C 099 A78	123
861	7 86		BE	* +8		5	2631	B 043 S	123
862	7 87		MCW	'+',000+X3		7	2636	M +60 0+0	123
863	7 88	TLUXT	В	XXXX	EXIT	4	2643	В 000	123
864	7 89	ENTER	C	FREE+23, 'SPS'	DETERMINE TYPE OF	7	2647	C 123 A81	124
865	7 90		BE	GTFIX	ENTER CARD AND	5	2654	B 464 S	124
866	7 91		C	INPUT+20, 'AUTO'	GO TO APPROPRIATE	7	2659	C 352 A85	124
867	7 92		BE	GTFRE	ROUTINE	5	2666	B 503 S	124
868	7 93		BW	PSTNU, MODESW		8	2671	V 630 +02 1	124
869	7 94	CDECTA	B	RSTMOD	O MIC TYPE	4	26 7 9 2683	B 638 V P17 A68 B	124
870	7 95	SPECIN		MLCTYP, EQVADD-1, B	Q. MLC TYPE	8 7	2691	L A67 A69	125 125
871	7 96	CVEI	LCA BCE	EQVADD-2,EQVADD	Q. SHOULD OP BE -L-	8	2698	B 013 119	125
872	7 97 7 98	CKEL	MCW	SAVCOD, FREE+19, 'L', EQVADD	MAKE OP CODE -L-	7	2706	M A86 A69	125
873 874	7 99		В	SAVCOD	MAKE OF CODE -E-	4	2713	B 013	125
875	8 00	MLCTYP		'M',EQVADD	MAKE OP -M-	7	2717	L A87 A69	126
876	8 01	HECTIF	В	CKEL	TIMING OF 1)	4	2724	B 098	126
877	8 02	*	_			·			

SEQ	PG LIN	LABEL	OP	OPERANDS		SFX CT	LOCN	INSTRUCTION	TYPE	CARD
879 880 881 882	8 04 8 05 8 06 8 07	* BADOP	LCA BW BW	BLANK, EQVADD SAVCOD, FREESW CKFF, MODESW	MAKE OP BLANK Q. IN FREE FORM MODE Q. IN FREE FORM MODE	7 8 8	2728 2735 2743	L A54 A69 V 013 H09 1 V Q01 +02 1		126 126 126
883	8 08		В	SAVCOD		4	2751	B 013		126
884	8 09	ABSCOD		SAVCOD, FREE+19,		8	2755	B 013 119		127
885	8 10		LCA	BLANK, EQVADD	PROCESS ACTUAL OP	7	2763	L A54 A69		127
886	8 11		MCW	FREE+19,EQVADD	CODES	7	2770	M 119 A69		127
887	8 12		BCE	SAVCOD, FREE+20,		8	2777	B 013 120		127
888	8 13		CW	EQVADD		4	2785 2789) A69		127
889	8 14		SW	EDEC. 20 COVADD-1		1 7	2790	, M 120 A68		127 128
890	8 15		MCW	FREE+20,ECVADD-1		4	2797	B 013		128
891 892	8 16 8 17	CKFF	B BCE	SAVCOD, FREE+14,	IF RECORD APPEARS TO		2801	B 013 114		128
893	8 18	CKEF	MCW	FREE+80, INPUT+80	BE FIXED FORM RECORD	7	2809	M 180 412		128
894	8 19		CHAIN		DE LINED LONG REGORD		2007	11 100 112	MACRO	120
895	0 1)		MCW	,		1	2816	M	GEN	128
896			MCW			ī	2817	M	GEN	128
897			MCW			ī	2818	M	GEN	128
898			MCW			ī	2819	М	GEN	129
899			MCW			1	2820	M	GEN	129
900			MCW			1	2821	M	GEN	129
901			MCW			1	2822	M	GEN	129
902			MCW			1	2823	M	GEN	129
903			MCW			1	2824	M	GEN	129
904	8 20		CS	332		4	2825	/ 332		129
905	8 21		CS			1	2829	1		130
906	8 22		MCW	FREE+80,PRINT+80		7	2830	M 180 280		130
907	8 23		CHAIN	4		_		••	MACRO	
908			MCW			1	2837	M	GEN	130
909			MCW			1	2838	M	GEN	130
910			MCW			1	2839	M	GEN	130
911			MCW		0001 333	1 7	2840	M 010 222	GEN	130
912	8 24		MCW	*PROCESSING AS FIXED FORM REC	UKU* ; 332	7	2841 2848	M B18 332 2		130 131
913			W SW	FREESW		1 4	2849	• H09		131
914 915	8 26 8 27		BCV	RESTR		5	2853	B Q62		131
916	8 28		ВСУ	GTFIX		4		B 464		131
917	8 29	RESTR		GTFIX, 1				F 464 1		131
918	8 30	*	CCD	011 1Ay 1		,	2002	1 70, 1		131
919	8 31		OF JOB	PROCEDURE						
920	8 32	#								
921	8 33	PRECJ	RTW	SYSTAP, OVL2	SKIP PAST OVERLAY	8	2867	L (U1 626 F	\	131
922	8 34	EOJ	В	PUT	PUT END CARD	4		B 586		131
923	8 35		WTM	OUTAPE	WRITE TAPE MARK	5	2879	U (U4 M		132
924	8 36		MESSG	'PASS 3 COMPLETED',60,K,1					MACRO	
925	01		CC	K		2	2884		GEN	132
926	02		CS	332		4	2886	/ 332	GEN	132
927	03		CS			1	2890	/	GEN	132
928	04		MCW	'PASS 3 COMPLETED',60+200		7	2891	M B34 260	GEN	132

SEQ PG LIN LABEL OP	OPERANDS	SFX CT	LOCN	INSTRUCTION	TYPE	CARD
929 05 W 930 06 CC 931 8 37 CW 932 8 38 CW	1 SYSMK1 CLEAR GROUP MK W/ WM GMK1,GMK2	1 2 4	2898 2899 2901 2905	2 F 1) K09) I89 187	GEN GEN	132 132 133 133
933 8 39 RTW 934 8 40 RTW 935 8 41 NOP	SYSTAP, OVL2 SYSTAP, 085 READ IN PASS 4 0	8 8 4	2912 2920 2928	L (U1 626 R L (U1 085 R N 000		133 133 133
936 8 42 BER 937 8 43 B 938 8 44 LTOR 352 DCW	TPERR PASSB2 GO TO NEXT PASS + +INAREA+12	5 4 3	2932 2937 2943	B K10 L B 200 2941 I15	ADCON	133 134 134
332 OCW	+1 *CHA* *S*	1 3 1	2944 2947 2948	•••	LIT LIT LIT	134 134 134
406 HLDCD	+00 =01	1 2 1	2949 2951 2952		LIT LIT AREA	134 134 135
428	'C' 'Y' '+1 ' 'EQU '	1 3 5	2953 2954 2957 2962		LIT LIT LIT LIT	135 135 135 135
430 432	*\$HIVAL +P * +NUREC *B*	10 3 1	2972 2975 2976	626	LIT ADCON LIT	135 135 136
445 SAVCP 447	=09 \$HIVAL \$P	3 9 6 5	2979 2988 2994 2999		LIT AREA LIT LIT	136 136 136 136
450 484 MODESW 536	*3 * =01 *ILLEGAL LABEL - SEQUENCE NUMBER*	2 1 31	3001 3002 3033		LIT AREA LIT	136 136 137
	*, * *011* *B *	1 3 3	3034 3037 3040		LIT LIT	137 137 137
	' B' 'NOP' 'BCE' 'BIN'	3 3 3	3043 3046 3049 3052		LIT LIT LIT	138 138 138 138
	'+ B' +5 'BSS'	3 1 3	3055 3056 3059		LIT LIT LIT	138 138 138
621	*+* *\$\$* +VALUE+2	1 2 3	3060 3062 3065	\$02	LIT LIT ADCON	139 139 139
635 640 ABSW 684 WAREA6	<pre>*ACTUAL OP CODES PRESENT IN FIXED FORM IMAGES* =01 * +* =06</pre>	44 1 2 6	3109 3110 3112 3118		LIT AREA LIT AREA	141 141 141 141
OUT BANLAU	*EQU* *+p *	3	3121 3124		LIT	141 142

SEQ	PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION	TYPE	CARD
				' 032 '	3	3127		LIT	142
				'000'	3	3130		LIT	142
				111	ī	3131		LIT	142
				1521	2	3133		LIT	142
				191	1	3134		LIT	142
				1001	2	3136		LIT	142
	771			'LTORG'	5	3141		LIT	143
				1051	2	3143		LIT	143
				1041	2	3145		LIT	143
				+4	1	3146		LIT	143
				+3	1	3147		LIT	143
				+X	2	3149		LIT	143
				1_1	1	3150		LIT	143
		DIANKS		11991	3	3153 3156		LIT	144 144
	835	BLANK3		=03 +5500	4	3160		LIT	144
	843	EQVADD		=09	9	3169		AREA	144
	040	EWVADO		·N ·	2	3171		LIT	144
				1B 1	2	3173		LIT	144
				12 1	2	3175		LIT	144
	860			+FREE+11	3	3178	111	ADCON	145
	•			'SPS'	3	3181		LIT	145
				AUTO	4	3185		LIT	145
				·[·	1	3186		LIT	145
				a W a	1	3187		LIT	145
	912			*PROCESSING AS FIXED FORM RECORD*	31	3218		LIT	146
	928			'PASS 3 COMPLETED'	16	3234		LIT	147
939	8 45	*		NEWOUTE COEDITION CORE					
940	8 46		UF MI	NEMONIC OPERATION CODES					
941	8 47 8 48	#	ORG	3253			3253		
942 943	8 49		DCW	5255 111	1	3253	3233		148
944	8 50		DCW	=4	4	3257	•		148
945	8 51		DCW	=2	2	3259			148
946			DCW	'NNOP'	_ 4	3263			148
947	8 53		DCW	'C XFR'	5	3268			148
948	8 54		DCW	'O LOR'	5	3273			148
949	8 55		DCW	'I JOB'	5	3278			148
950	8 56		DCW	'/CS '	4	3282			149
951	8 57		DCW	*O DA *	5	3287			149
952	8 58		DCW	'S2WSS'	5	3292			149
953	8 59	MASYM	DCW	!=MA !	4	3296			149
954	8 60		DCM	*3 END*	5	3301			149
955	8 61		DCM	PMCM*	4 5	3305			149 149
956 957	8 62		DCW DCW	'N ENT' 'BRMRTB'	6	3310 3316			150
95 <i>1</i> 958	8 63 8 64		DCM	ABBLC*	5	3321			150
959	8 65		DCW	1 1	1	3322			150
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962 8 68	SEQ	PG L	IN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
963 8 69 DCW 'FCCR' 5 3345 150 964 8 70 DCW 'SIDUDCR' 7 3352 151 965 8 71 DCW 'YNLZ' 4 3366 151 966 8 72 DCW 'YMLZ' 4 3366 151 967 8 73 DCW 'UEUSKP' 6 3666 151 968 8 74 DCW 'O ORG' 5 3371 151 969 8 74 DCW 'NSBN' 4 3371 151 969 8 75 DCW 'HSBN' 4 3385 151 970 8 77 DCW 'NSBN' 4 3385 151 971 8 77 DCW 'NSBN' 4 3385 151 972 8 78 DCW 'WLLWIN' 4 3396 152 972 8 78 DCW 'ULLWIN' 6 3396 152 974 8 80 DCW 'ULLWIN' 6 3396 152 975 8 81 DCW 'MLWIN' 6 3396 152 976 8 92 DCW 'ZWCS' 4 3405 152 977 8 83 DCW 'WLWIN' 6 3411 152 978 8 84 DCW 'MMCW' 4 3415 153 980 8 85 DCW 'ZZWS' 4 3405 152 980 8 89 DCW 'SSN' 4 3415 153 981 8 89 DCW 'SSN' 4 3444 153 982 8 8 DCW 'SSN' 4 3444 153 983 8 8 9 DCW 'SSN' 5 3459 154 986 8 92 DCW 'SSN' 5 3459 154 987 8 93 DCW 'SSN' 5 3459 154 988 8 94 DCW 'WHIN' 6 3469 154 989 8 95 DCW 'SSN' 6 3469 154 989 8 95 DCW 'SSN' 7 3469 155 999 9 DCW 'SSN' 7 3469 155 990 9 DCW 'SSN' 7 3469 1	962	8 6	8		DCW	*F3WM2_WDC*	9	3340		150
964 8 70 DCM 'SIDUDCR' 73352 151 966 8 71 DCM 'YMLZ' 4 3356 151 966 8 72 DCM 'YM ' 4 3366 151 968 8 74 DCM 'UEUSKP' 6 3366 151 968 8 74 DCM 'UORG' 5 3371 151 968 8 75 DCM 'HSSR' 4 3375 151 970 8 76 DCM 'KSSS' 6 3381 151 971 8 77 DCM 'YMZ' 4 3388 152 972 8 78 DCM 'YMZ' 4 3388 152 972 8 78 DCM 'YMZ' 4 3388 152 973 8 8 DCM 'UUHHTTH' 6 3390 122 974 8 80 DCM 'UWHTT' 6 3411 152 975 8 8 1 DCM 'S MLC' 5 3401 152 977 8 8 3 DCM 'UWHTT' 6 3411 152 978 8 8 DCM 'UWHTT' 6 3411 152 978 8 8 DCM 'WCS' 4 3405 152 979 8 8 S DCM 'REWRY' 5 3433 153 980 8 8 DCM 'REWRY' 5 3433 153 980 8 8 DCM 'SELECCR' 7 3440 153 981 8 87 DCM 'SELECCR' 7 3440 153 982 8 8 B DCM 'SELECCR' 7 3440 153 983 8 8 9 DCM 'SELECCR' 7 3440 153 984 8 9 DCM 'SELECCR' 7 3440 153 985 8 91 DCM 'INSK' 7 3440 153 986 8 8 DCM 'INSK' 7 3440 153 987 8 9 DCM 'REWRY' 7 3440 153 980 8 8 DCM 'INSK' 7 3440 153 980 8 8 DCM 'INSK' 7 3440 153 980 8 8 DCM 'INSK' 7 3440 153 981 8 8 9 DCM 'REWRY' 7 3440 153 982 8 8 8 DCM 'INSK' 7 3440 153 983 8 9 DCM 'REWRY' 7 3440 153 984 8 9 DCM 'REWRY 7 7 3440 153 985 8 91 DCM 'INSK' 7 7 3440 153 986 8 9 DCM 'REWRY 7 7 3440 153 987 8 9 DCM 'REWRY 7 7 3440 153 988 8 9 DCM 'REWRY 7 7 3440 153 989 8 9 DCM 'REWRY 7 7 3440 153 980 8 9 DCM 'REWRY 7 7 3440 153 980 8 9 DCM 'REWRY 7 7 3440 153 980 8 9 DCM 'REWRY 7 7 3440 153 985 8 91 DCM 'INSK' 7 7 3440 153 985 8 91 DCM 'INSK' 7 7 3463 154 990 8 96 DCM 'REWRY 7 7 3463 154 990 8 96 DCM 'REWRY 7 7 3463 154 990 8 96 DCM 'REWRY 7 7 3463 154 990 8 96 DCM 'REWRY 7 7 3463 154 990 8 96 DCM 'REWRY 7 7 3463 154 990 8 96 DCM 'REWRY 7 7 3463 154 990 8 96 DCM 'REWRY 7 7 3463 154 990 8 96 DCM 'REWRY 7 7 3463 154 990 8 96 DCM 'REWRY 7 7 3463 155 990 9 0 DCM 'REWRY 7 7 3463 155 150 990 9 0 DCM 'REWRY 7 7 3463 155 150 990 9 0 DCM 'REWRY 7 7 3463 155 150 990 9 0 DCM 'REWRY 7 7 3463 155 150 990 9 0 DCM 'REWRY 7 7 3463 155 150 990 9 0 DCM 'REWRY 7 7 3463 155 150 990 9 0 DCM 'REWRY 7 7 3463 155 150 990 9 0 DCM 'REWRY 7 7 3463 155 150 990 9 0 DCM 'REWRY 7 7 3463 155 150 990 9 0 DCM 'REWRY 7 7 3463 155 150 990 9 0 DCM 'REWRY 7										
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985 8 91 DCW '1VBW' 5 3454 154 986 8 92 DCW '98BC9' 5 3459 154 987 8 93 DCW '1R' 4 3463 154 988 8 94 DCW 'URLRTW' 6 3469 154 998 8 95 DCW 'FIRNRD' 7 3476 154 990 8 96 DCW 'FIRLRDW' 7 3483 154 991 8 97 DCW 'MMU 4 3487 155 992 8 98 DCW 'VBWZ' 4 3491 155 993 8 99 DCW 'YBWZ' 4 3491 155 993 8 99 DCW 'YBWZ' 5 3500 155 995 9 01 DCW 'RBBPC' 5 3500 155 995 9 01 DCW 'CCC' 4 3504 155 996 9 02 DCW 'C4PCB' 5 3509 155 997 903 DCW 'DMLN' 4 3513 155 998 9 04 DCW 'UMUWITM' 6 3519 155 1000 9 06 DCW 'CEX' 5 3509 155 1001 9 07 DCW 'UWUWITM' 6 3519 155 1001 9 07 DCW 'UCU' 5 3533 156 1003 9 09 DCW 'CEX' 5 3538 156 1004 9 10 DCW 'CH' 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										
986 8 92 DCW '98BC9' 5 3459 154 987 8 93 DCW '1R ' 4 3463 155 988 8 94 DCW 'URLRTW' 6 3469 154 989 8 95 DCW 'FIRMRD' 7 3476 154 990 8 96 DCW 'FIRMRD' 7 3483 154 991 8 97 DCW 'MMU' 4 3487 154 991 8 97 DCW 'MMU' 4 3487 155 992 8 98 DCW 'YBWZ' 4 3491 155 993 8 99 DCW 'SW ' 5 3500 155 994 9 00 DCW 'RBBPC' 5 3500 155 995 9 01 DCW 'CC' 4 3504 155 997 9 03 DCW 'CAPCB' 5 3509 155 997 9 03 DCW 'UMUNTM' 6 3519 155 998 9 04 DCW 'UMUNTM' 6 3519 155 999 9 05 DCW 'EMCE' 4 3523 156 1000 9 06 DCW 'C EX' 5 3528 156 1001 9 07 DCW 'UUU' 5 3533 156 1002 9 08 DCW 'ZBBAV' 5 3538 156 1003 9 09 DCW 'ZBBAV' 5 3538 156 1004 9 10 DCW 'LU 'SRP' 4 3550 156 1005 9 11 DCW 'LU ' 1006 9 12 DCW 'BMMWTB' 6 3556 157 1008 9 14 DCW 'KBBEF' 5 3566 157 1009 9 15 DCW 'KBBEF' 5 3566 157 1001 9 16 DCW 'KBBEF' 5 3566 157										
987 8 93 DCW '1R' '1R' ' 4 3463 154 988 8 94 DCW 'URLRTW'										
988 8 94 DCW 'URLRTW' 7 3476 154 989 8 95 DCW 'FIRMRD' 7 3476 154 990 8 96 DCW 'FIRLRDW' 7 3483 154 991 8 97 DCW 'MMU' 4 3487 154 992 8 98 DCW 'VBWZ' 4 3491 155 993 8 99 DCW 'SSW' 4 3495 155 994 9 00 DCW 'RBBPC' 5 3500 155 995 9 01 DCW 'C4PCB' 5 3500 155 996 9 02 DCW 'C4PCB' 5 3500 155 997 9 03 DCW 'DMLN' 4 3513 155 998 9 04 DCW 'UWUMTM' 4 3513 155 999 9 05 DCW 'EMCE' 4 3523 156 1000 9 06 DCW 'CEX' 5 3528 156 1001 9 07 DCW 'UCU' 5 3538 156 1001 9 07 DCW 'UCU' 5 3538 156 1002 9 08 DCW 'SRBAV' 5 3538 156 1004 9 10 DCW 'SRP' 4 3542 156 1005 9 11 DCW 'H 'LLU' 4 3550 156 1006 9 12 DCW 'BWMTB' 6 3556 157 1008 9 14 DCW 'WBWMTB' 5 3566 157 1009 9 15 DCW 'WBUSP' 6 3570 157 1009 9 15 DCW 'WBUSP' 6 3570 157										
989 8 95 DCW 'FIRMED' 7 3476 154 990 8 96 DCW 'FIRLEDW' 7 3483 154 991 8 97 DCW 'MWU' 4 3487 154 992 8 98 DCW 'VBHZ' 4 3491 155 993 8 99 DCW ',SW' 4 3495 155 994 9 00 DCW 'RBBPC' 5 3500 155 995 9 01 DCW 'CC ' 4 3504 155 996 9 02 DCW 'C4PCB' 5 3509 155 997 9 03 DCW 'DMLN' 6 3519 155 998 9 04 DCW 'UMUWTM' 6 3519 155 998 9 05 DCW 'EMCE' 4 3523 156 1001 9 07 DCW 'UCU' 5 3538 156 1001 9 07 DCW 'UCU' 5 3538 156 1002 9 08 DCW 'ZBBAV' 5 3560 156 1004 9 10 DCW 'LLU' 4 3546 156 1005 9 11 DCW 'LLU' 4 3550 156 1006 9 12 DCW 'BMWTB' 6 3566 157 1007 9 13 DCW 'KSSB' 5 3566 157 1008 9 14 DCW 'KBBEF' 5 3566 157 1009 9 15 DCW 'KBBEF' 5 3566 157 1009 9 15 DCW 'WBBEF' 6 3576 157										
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991 8 97 DCW 'MMU' 4 3487 154 992 8 98 DCW 'VBWZ' 4 3491 155 993 8 99 DCW 'SW 'SW ' 4 3495 155 994 9 00 DCW 'RBBPC' 5 3500 155 995 9 01 DCW 'CC ' 4 3504 155 996 9 02 DCW 'C4PCB' 5 3509 155 997 9 03 DCW 'DMLN' 4 3513 155 998 9 04 DCW 'UMUWTM' 6 3519 155 1000 9 06 DCW 'EMCE' 4 3523 156 1001 9 07 DCW 'EMCE' 4 3523 156 1001 9 07 DCW 'UUU' 5 3538 156 1002 9 08 DCW 'ZBBAV' 5 3538 156 1004 9 10 DCW 'SRP' 4 3542 156 1005 9 11 DCW 'LLU ' 4 3550 156 1006 9 12 DCW 'BMWHTB' 6 3556 157 1007 9 13 DCW 'KBBEF' 5 3566 157 1008 9 14 DCW 'KBBEF' 5 3566 157 1009 9 15 DCW 'MRC' 6 3570 157 1009 9 15 DCW 'MRC' 9 157 1010 9 16 DCW 'WBUBSP' 6 3576 157										
992 8 98 DCW 'VBWZ' 4 3491 155 993 8 99 DCW ',SW' 4 3495 155 994 9 00 DCW 'RBBPC' 5 3500 155 995 9 01 DCW 'CC ' 4 3504 155 996 9 02 DCW 'C4PCB' 5 3509 155 997 9 03 DCW 'DMLN' 4 3513 155 998 9 04 DCW 'UMUNTM' 6 3519 155 999 9 05 DCW 'EMCE' 4 3523 156 1000 9 06 DCW 'C EX ' 5 3528 156 1001 9 07 DCW 'UCU' 5 3533 156 1002 9 08 DCW 'ZBBAV' 5 3538 156 1003 9 09 DCW 'SRP' 4 3542 156 1004 9 10 DCW '.H ' 1005 9 11 DCW '.H ' 1006 9 12 DCW 'BWMNTB' 6 3556 157 1007 9 13 DCW 'KSSB' 5 3566 157 1008 9 14 DCW 'KBBEF' 5 3566 157 1009 9 15 DCW 'KBBEF' 5 3566 157 1009 9 15 DCW 'KBBEF' 5 3566 157 1009 9 15 DCW 'WBBUSP' 6 3576 157										
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994 9 00 DCW 'RBBPC' 5 3500 155 995 9 01 DCW 'CC ' 4 3504 155 996 9 02 DCW 'C4PCB' 5 3509 155 997 9 03 DCW 'DMLN' 4 3513 155 998 9 04 DCW 'UMUWTM' 6 3519 155 999 9 05 DCW 'EMCE' 4 3523 156 1000 9 06 DCW 'C EX ' 5 3538 156 1001 9 07 DCW 'UCU' 5 3538 156 1002 9 08 DCW 'ZBBAV' 5 3538 156 1003 9 09 DCW 'SRP' 4 3542 156 1004 9 10 DCW 'H 'H ' 4 3546 156 1005 9 11 DCW 'LLU' 4 3550 156 1006 9 12 DCW 'BWMWTB' 6 3556 157 1007 9 13 DCW 'KSSB' 5 3561 157 1008 9 14 DCW 'KBSEF' 5 3566 157 1009 9 15 DCW 'BMRC' 5 3576 157 1010 9 16 DCW 'UBUBSP' 6 3576 157										
995 9 01 DCW 'CC ' 996 9 02 DCW 'C4PCB' 997 9 03 DCW 'DMLN' 998 9 04 DCW 'UMUWTM' 999 9 05 DCW 'EMCE' 1000 9 06 DCW 'C EX ' 1001 9 07 DCW 'UCU ' 1002 9 08 DCW 'ZBAV' 1003 9 09 DCW 'SRP' 1004 9 10 DCW 'H ' 1005 9 11 DCW 'LLU ' 1006 9 12 DCW 'BWMWTB' 1007 9 13 DCW 'KSSB' 1008 9 14 DCW 'KSSB' 1009 9 15 DCW 'KSBEF' 1009 9 15 DCW 'PMRC' 1009 9 16 DCW 'PMRC' 157										
996 9 02 DCW 'C4PCB' 5 3509 155 997 9 03 DCW 'DMLN' 4 3513 155 998 9 04 DCW 'UMUWTM' 6 3519 155 999 9 05 DCW 'EMCE' 4 3523 156 1000 9 06 DCW 'C EX ' 5 3528 156 1001 9 07 DCW 'UCU ' 5 3533 156 1002 9 08 DCW 'ZBBAV' 5 3538 156 1003 9 09 DCW 'SRP' 4 3542 156 1004 9 10 DCW '.H ' 4 3546 156 1005 9 11 DCW 'LLU ' 4 3550 156 1006 9 12 DCW 'BWMWTB' 6 3556 157 1007 9 13 DCW 'KSSB' 5 3561 157 1008 9 14 DCW 'KBBEF' 5 3566 157 1009 9 15 DCW 'PMRC' 4 3570 157 1010 9 16 DCW 'UBUBSP' 6 3576 157							4			
997 9 03 DCW 'DMLN' 4 3513 155 998 9 04 DCW 'UMUWTM' 6 3519 155 999 9 05 DCW 'EMCE' 4 3523 156 1000 9 06 DCW 'C EX ' 5 3528 156 1001 9 07 DCW 'UCU' 5 3533 156 1002 9 08 DCW 'ZBBAV' 5 3538 156 1003 9 09 DCW 'SRP' 4 3542 156 1004 9 10 DCW '.H ' 4 3546 156 1005 9 11 DCW 'LLU' 4 3546 156 1006 9 12 DCW 'BWMWTB' 6 3556 157 1007 9 13 DCW 'KSSB' 5 3561 157 1008 9 14 DCW 'KBBEF' 5 3566 157 1009 9 15 DCW 'PMRC' 4 3570 157 1010 9 16 DCW 'UBUBSP' 6 3576										
998 9 04							_			
999 9 05 DCW 'EMCE' 4 3523 156 1000 9 06 DCW 'C EX ' 5 3528 156 1001 9 07 DCW 'UCU ' 5 3533 156 1002 9 08 DCW 'ZBBAV' 5 3538 156 1003 9 09 DCW '5RP ' 4 3542 156 1004 9 10 DCW '.H ' 4 3546 156 1005 9 11 DCW 'LLU ' 4 3550 156 1006 9 12 DCW 'BWMMTB' 6 3556 157 1007 9 13 DCW 'KSSB' 5 3561 157 1008 9 14 DCW 'KBBEF' 5 3566 157 1009 9 15 DCW 'PMRC' 4 3570 157 1010 9 16 DCW 'UBUBSP' 6 3576 157						*UMUWTM*	6	3519		155
1000 9 06 DCW 'C EX' 5 3528 156 1001 9 07 DCW 'UCU' 5 3533 156 1002 9 08 DCW 'ZBBAV' 5 3538 156 1003 9 09 DCW 'SRP' 4 3542 156 1004 9 10 DCW 'H' 4 3546 156 1005 9 11 DCW 'LLU' 4 3550 156 1006 9 12 DCW 'BWMWTB' 6 3556 157 1007 9 13 DCW 'KSSB' 5 3561 157 1008 9 14 DCW 'KBBEF' 5 3566 157 1009 9 15 DCW 'PMRC' 4 3570 157 1010 9 16 DCW 'UBUBSP' 6 3576 157						'EMCE'	4	3523		156
1001 9 07 DCW 'UCU' 5 3533 156 1002 9 08 DCW 'ZBBAV' 5 3538 156 1003 9 09 DCW 'SRP' 4 3542 156 1004 9 10 DCW 'H' 4 3546 156 1005 9 11 DCW 'LLU' 4 3550 156 1006 9 12 DCW 'BWMWTB' 6 3556 157 1007 9 13 DCW 'KSSB' 5 3561 157 1008 9 14 DCW 'KBBEF' 5 3566 157 1009 9 15 DCW 'PMRC' 4 3570 157 1010 9 16 DCW 'UBUBSP' 6 3576 157		9 0	6			'C EX '	5			
1002 9 08 DCW 'ZBBAV' 5 3538 156 1003 9 09 DCW 'SRP' 4 3542 156 1004 9 10 DCW '.H ' 4 3546 156 1005 9 11 DCW 'LLU' 4 3550 156 1006 9 12 DCW 'BWMWTB' 6 3556 157 1007 9 13 DCW 'KSSB' 5 3561 157 1008 9 14 DCW 'KBBEF' 5 3566 157 1009 9 15 DCW 'PMRC' 4 3570 157 1010 9 16 DCW 'UBUBSP' 6 3576 157							5			156
1003 9 09 DCW '5RP' 4 3542 156 1004 9 10 DCW '.H '. 4 3546 156 1005 9 11 DCW 'LLU '. 4 3550 156 1006 9 12 DCW 'BWMWTB'. 6 3556 157 1007 9 13 DCW 'KSSB'. 5 3561 157 1008 9 14 DCW 'KBBEF'. 5 3566 157 1009 9 15 DCW 'PMRC'. 4 3570 157 1010 9 16 DCW 'UBUBSP'. 6 3576 157						*ZBBAV*	5	3538		156
1004 9 10 DCW '.H ' 4 3546 156 1005 9 11 DCW 'LLU ' 4 3550 156 1006 9 12 DCW 'BWMWTB' 6 3556 157 1007 9 13 DCW 'KSSB' 5 3561 157 1008 9 14 DCW 'KBBEF' 5 3566 157 1009 9 15 DCW 'PMRC' 4 3570 157 1010 9 16 DCW 'UBUBSP' 6 3576 157						15RP 1	4	3542		156
1005 9 11 DCW 'LLU' 4 3550 156 1006 9 12 DCW 'BWMWTB' 6 3556 157 1007 9 13 DCW 'KSSB' 5 3561 157 1008 9 14 DCW 'KBBEF' 5 3566 157 1009 9 15 DCW 'PMRC' 4 3570 157 1010 9 16 DCW 'UBUBSP' 6 3576 157							4			
1006 9 12 DCW 'BWMWTB' 6 3556 157 1007 9 13 DCW 'KSSB' 5 3561 157 1008 9 14 DCW 'KBBEF' 5 3566 157 1009 9 15 DCW 'PMRC' 4 3570 157 1010 9 16 DCW 'UBUBSP' 6 3576 157							4			
1007 9 13 DCW 'KSSB' 5 3561 157 1008 9 14 DCW 'KBBEF' 5 3566 157 1009 9 15 DCW 'PMRC' 4 3570 157 1010 9 16 DCW 'UBUBSP' 6 3576 157							6			
1008 9 14 DCW 'KBBEF' 5 3566 157 1009 9 15 DCW 'PMRC' 4 3570 157 1010 9 16 DCW 'UBUBSP' 6 3576 157						* KSSB*	5			
1009 9 15 DCW 'PMRC' 4 3570 157 1010 9 16 DCW 'UBUBSP' 6 3576 157							5	3566		
1010 9 16 DCW 'UBUBSP' 6 3576 157						'PMRC'	4	3570		157
	1010	9 1	6		DCW	'UBUBSP'	6			157
	1011	9 1	7		DCW	'URMRT '	6	3582		157

1061 9 67

SEQ PG LIN	LABEL OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
1012 9 18	DCh	SBBE !	5	3587		157
1013 9 19	DCH		4	3591		158
1014 9 20	DCW		4	3595		158
1015 9 21	DCW		4	3599		158
1016 9 22	DCW		5	3604		158
1017 9 23	DCH		4	3608		158
1018 9 24	DCW		5	3613		158
1019 9 25	DCM		4	3617		158
1020 9 26	DCh		5	3622		159
1021 9 27	DCM		7	3629		159
1022 9 28	DCh		4	3633		159
1023 9 29	DCh		5	3638		159
1024 9 30	DCM		5	3643		159
1025 9 31	DCW		5	3648		159
1026 9 32	DCW		4	3652		159
1027 9 33	DCh		5	3657		160
1028 9 34	DCW	14P 1	4	3661		160
1029 9 35	DCh	'FORMSD'	7	3668		160
1030 9 36	DCh	**BBCV*	5	3673		160
1031 9 37	DCW	! -ZS !	4	3677		160
1032 9 38	DCW	'O LTO'	5	3682		160
1033 9 39	DCh	P EQU'	5	3687		160
1034 9 40	DCh	BBSS*	5	3692		161
1035 9 41	DCW	*F8 CC *	6	3698		161
1036 9 42	DCh		4	3702		161
1037 9 43	DCW	'LBBER'	5	3707		161
1038 9 44	DCh	'/BBU '	5	3712		161
1039 9 45	DCh		4	3716		161
1040 9 46	DCh		5	3721		161
1041 9 47	DCh		5	3726		162
1042 9 48	DCh		5	3731		162
1043 9 49	DCh		9	3740		162
1044 9 50	DCW		5	3745		162
1045 9 51	DCH		4	3749		162
1046 9 52	DCW		7	3756		162
1047 9 53	DCh		4.	3760		162
1048 9 54	DCh		5	3765		163
1049 9 55	DCM		4	3769		163
1050 9 56	DCW		4	3773		163
1051 9 57	DCW		9	3782		163
1052 9 58	DCM		3	3785		163
1053 9 59	DCW		4	3789		163
1054 9 60	DCW			3790		163
1055 9 61	DCW		6	3796		164
1056 9 62	DCW		6	3802		164
1057 9 63	DCM		5	3807		164
1058 9 64 1059 9 65	OPND DCW	=1	1	3808		164
1060 9 66		S AND TARIES				
1000 A 00	* CUNSTAINT	S AND TABLES				

SEQ	PG	LIN	LABEL OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
1062	9	68	FREESW DC	0	í	3809		164
1063		69	BINTBL DCW	BAV Z'	5	3814		164
1064		70	DCW	*BC9 9*	5	3819		164
1065		71	DCW	*BU /*	5	3824		164
1066		72	DCW	*BCV **	5	3829		165
1067	9	73	DCW	*BE S*	5	3834		165
1068	9	74	DCW	*BEF K*	5	3839	•	165
1069	9	75	DCW	BER L	5	3844		165
1070	9	76	DCW	*BH U*	5	3849		165
1071	9	77	DCW	'BL T'	5	3854		165
1072	9	78	DCW	*BLC · A*	5	3859		165
1073	9	79	DCW	BPB P	5	3864		166
1074	9	80	DCW	'BPCBR'	5	3869		166
1075	9	81	DCW	*BSS B*	5	3874		166
1076	9	82	DCW	BSS C'	5	3879		166
1077		83	DCW	*BSS D*	5	3884	•	166
1078		84	DCW	'BSS E'	5	3889		166
1079	9	85	DCW	'BSS F'	5	3894		166
1080		86	DCW	'BSS G'	5	3899		167
1081		87	*					
1082		88	*TAPE INPUT	AREA				
1083		89	*					
1084		90	DS	3		3902		
1085	9	91	INAREA DA	1X86,G		3903	3988	167
			DCW	1 1	1	3989	GMAR	K 168
1086		92	GMK1 EQU	*		3989		
1087		93	*					
1088		94	<pre># EQUATES</pre>					
1089		95	*					
1090		96	BLANK EQU	BLANK3-2		3154		
1091		97	BLNK2 EQU	BLANK3-1		3155		
1092		98	ENDFIX EQU	ENTSPS		0626		
1093		99	WAREA3 EQU	WAREA6-3		3115		
1094			WAREA2 EQU	WAREA6-4		3114		
1095	10	01	EX	LIBRN			В 000	169

SFX CT LOCN INSTRUCTION TYPE CARD **OPERANDS** SEC PG LIN LABEL OP 1401 AUTOCODER-PASS 4-LEFT MAIN LINE -VERSION 3 1096 10 02 JOB 1097 10 03 SFX Z 1098 10 04 * INITIALIZATION OF INDEX LOCATIONS 1099 10 05 1100 10 06 Z 0085 1101 10 07 ORG 085 1 0085 1102 10 08 GRPMK1 DC Z 172 Z 1 0086 172 1103 10 09 DC 0 3 0089 172 1104 10 10 XL1 DCW 000 2 0091 Z 172 1105 10 11 DC 00 Ζ 0094 172 1106 10 12 XL2 DCW 000 Z 2 0096 172 1107 10 13 DC 00 Z 3 0099 172 1108 10 14 XL3 DCW 000 Z 0100 DS 1 1109 10 15 1110 10 16 1111 10 17 *FIXED FORM IMAGE AREA 1112 10 18 0100 1113 10 19 IMAGE EQU Z ¥ Z 0184 1114 10 20 DS . . Z 1 0185 173 1115 10 21 GRPMK4 DC Z 4 0189 12SKB1 173 1116 10 22 ZONE DCW Z 2 0191 **EXCVFL DCW** 99 CONSTANTS USED IN 173 1117 10 23 MAKING LITERAL LABELS Z 2 0193 173 1118 10 24 **EXNUMB DCW** 00 173 1119 10 25 PROCOR DCW =1 Z 1 0194 Z 4 0198 174 1120 10 26 TOTLBL DCW +0000 1 0199 1121 10 27 JOBSW DCW 0 Z 174 1122 10 28 1123 10 29 * READ IN CONTROL CARD OVERLAP 1124 10 30 8 0200 L (U1 N75 R 174 1125 10 31 PASSB2 RTW SYSTAP, DOPROG Z Z 0208 N 000 174 1126 10 32 NOP 0 1127 10 33 BER **TPERR** Z 5 0212 B 221 L 174 4 0217 B N75 174 1128 10 34 В START 1129 10 35 1130 10 36 *TAPE REDUNDANCY ROUTINE 1131 10 37 Z 4 0221 H 099 174 1132 10 38 TPERR SBR XL3 Z 4 0225 H 293 175 1133 10 39 SBR REDXT+3 Z 7 0229 Y 464 099 175 MZ 1134 10 40 +9.XL3 BRING IN INSTRUCTION Ζ 7 0236 M IIO 284 175 1135 10 41 MCW 4000-10+X3, TPINS+7 THAT COUSED Z 7 0243 D 280 260 175 1136 10 42 MN TPINS+3.BSP1+3 REDUNDANCY Z 7 0250 M 284 393 175 1137 10 43 MCW TPINS+7, INST2+7 BSP1 BACKSPACE TAPE Z 0257 U (U0 B 175 BSP Q. WRITE REDUNDANT INITIALIZE COUNTER RE-READ 1138 10 44 INITAP 0262 B 366 284 W 176 Q. WRITE REDUNDANCY Z 1139 10 45 BCE WRTRD, TPINS+7, W Z 7 0270 M 464 465 176 1140 10 46 MCW +9.RDCT=1 Z 8 0277 M (UO 000 R 1141 10 47 TPINS RT INITAP.XXXX Q. REDUNDANT AGAIN Z 5 0285 EXIT Z 4 0290 5 0285 B 294 L 176 1142 10 48 BER RDERR B 000 176 1143 10 49 REDXT B XXXX Z 7 0294 TPINS+3,BSP2+3 D 280 304 176 1144 10 50 RDERR MN

BACKSPACE AGAIN

BSP

INITAP

BSP2

1145 10 51

5 0301

U (U0 B

177

Z

SEQ	PG	LIN	LABEL	OP	OPERANDS		SFX	СТ	LOCN	INSTRUCTION	TYPE	CARD
1146	10	52		S	+1,RDCT	REDUCE COUNTER	Z	7	0306	S 466 465		177
1147				BWZ	TPINS, RDCT, B	Q. 10 SUCCESSIVE READS	Ž	8	0313	V 277 465 B		177
1148				MN	TPINS+3, TPHLT+6	40 20 000000112 WENDO	Ž	7	0321	D 280 334		177
1149			TPHLT	Н	XXXX,490	HALT	Ž	7	0328	. 000 490		177
1150			IFFILI	MCW	TPINS+7,*+8	inc i	Z	7	0335	M 284 349		178
1150				RT	INITAP, XXXX	RE-READ	Z	8	0342	M (UO 000 R		178
				BSS		DETERMINE OPTION	Z	5	0350	B 257 E		178
1152					BSP1.E	HALT AGAIN	Z	7	0355	• 000 402		178
1153				H	XXXX,402	EXIT	Z	4	0362	B 290		178
1154			140 TOD	В	REDXT		Z		0366	U (U1 E		178
1155			WRTRD	SKP	SYSTAP	ERASE TAPE		5				
1156				BCE	SBCTR, WRTCR-1,5	Q. FIFTY SKIPS	Z	8	0371	B 403 467 5		179
1157				Α	+1,WRTCR=2	INCREASE COUNTER	Z	7	0379	A 466 468		179
1158			INST2	WT	INITAP,XXXX	RE-WRITE	Z	8	0386	M (UO 000 W		179
1159				BER	BSP1	Q. REDUNDANT AGAIN	Z	5	0394	B 257 L		179
1160				8	REDXT		Z	4	0399	B 290		179
1161	10	67	SBCTR	S	WRTCR	RESET COUNTER	Z	4	0403	S 468		179
1162	10	68		MN	TPINS+3,*+7		Z	7	0407	D 280 420		180
1163	10	69		Н	XXXX,460	HALT	Z	7	0414	• 000 460		180
1164	10	70		В	INST2		Z	4	0421	B 386		180
1165	10	71	*									
1166			* NOISI	E RECOR	RD ROUTINE							
1167			#									
1168			NOISE	SBR	XL3		Z	4	0425	H 099		180
1169				SBR	NSXT+3		Z	4	0429	H 463		180
1170				MZ	+9,XL3		Z	7	0433	Y 464 099		180
1171			N2	BCE	4000-12+X3,XXXX,	SCAN FOR GROUP MARK	Z	8	0440	B 1H8 000		181
1172				CHAIN							MACRO	
1173		, 0		BCE			Z	1	0448	В	GEN	181
1174				BCE			Z	ī	0449	В	GEN	181
1175				BCE			Ž	ī	0450	В	GEN	181
1176				BCE			Ž	1	0451	В	GEN	181
1177				BCE			Z	î	0452	В	GEN	181
1178				BCE			Z	i	0453	8	GEN	181
				BCE			Ž	ī	0454	В	GEN	182
1179							***	1	0455	В	GEN	182
1180				BCE			Z	1	0456	8	GEN	182
1181				BCE			Z	1	0457	В	GEN	182
1182				BCE				7	0458	В	GEN	182
1183				BCE		,	Z	ŗ		-	GEN	182
1184			***	BCE			Z	1.	0459	8	GEN	182
1185			NSXT	В	XXXX		Z	4	0460	B 000		102
1186	10	80		LTORG			Z			0464		100
				DCW	+9		Z	1	0464		LIT	183
		1140	RDCT		=01		Z	1	0465		AREA	183
					+1		Z	1	0466		LIT	183
		1157	WRTCR		=02		Z	2	0468		AREA	183
1187			#									
1188			*END O	F CONT	ROL CARD ANALYSIS, R	EAD IN MAIN LINE						
1189			些									
1190			CWI98	CW	3998		Z	4	0469) 198		183
1191	10	85		SW	JOBSW		Z	4	0473	, 199		183

SEQ PG LIN	LABEL C)P	OPERANDS		SFX	СТ	LOCN	INSTRUCTION	TYPE	CARD
1192 10 86	F	В	PUT		Z	4	0477	B 610		183
1193 10 87		CW	JOBSW		Ž	4	0481	1 199		184
1194 10 88	8		WRTP		Ž	4	0485	B 578		184
1195 10 89	LOOPTB R		SYSTAP, DOPROG	READ IN MAIN LINE	Ž	8	0489	L (U1 N75 R		184
1196 10 90		NOP	0	OVERLAP	Ž	4	0497	N 000	•	184
1197 10 91		BER	TPERR		Z	5	0501	B 221 L		184
1198 10 92		CW	GRPMK5.GRPMK8		Z	7	0506) N74 H99		184
1199 10 93		MLC	'O',FACTOR-3		Z	7	0513	M M83 H45		184
1200 10 94	*		•							
1201 10 95	*START C	OF MAI	IN LINE							
1202 10 96	#									
1203 10 97	BYPASS B	3	GET	PROCESS BYPASSED CARDS	Z	4	0520	B 538		185
1204 10 98	S	S	XL3+1		Z	4	0524	S 100		185
1205 10 99	S	S			Z	1	0528	\$		185
1206 11 00	S	S			Z	1	0529	\$		185
1207 11 01	6	3	CKCOM		Z	4	0530	B 706		185
1208 11 02	#									
1209 11 03	*BEGINNI	ING OF	F NEW CARD ANALYSIS							
1210 11 04	*									
1211 11 05	NUREC B		PUT	PUT LAST RECORD	Z	4	0534	B 610		185
1212 11 06		SBR	GETXT+3	GET ROUTINE	Z	4	0538	H 577		185
1213 11 07		CS	INPUT+80		Z	4	0542	/ 080		186
1214 11 08		SW	INPUT+21		Z	4	0546	, 021		186
1215 11 09		SBR	N2+6, INPUT+13		Z	7	0550	H 446 013		186
1216 11 10		RT	INTAP, INPUT+1	READ TAPE	Z	8	0557	M (U4 001 R		186
1217 11 11		3	NOISE	CHECK FOR NOISE	Z	4	0565	B 425		186
1218 11 12		BER	TPERR	FUTT	Z	5	0569	B 221 L		186
1219 11 13	GETXT B	3	XXXX	EXIT	Z	4	0574	B 000		186
1220 11 14	*	TO 0117	FOUT ADEA							
1221 11 15 1222 11 16	*IMAGE	10 001	TPUT AREA							
1222 11 16		SBR	WRTXT+3		7	4	0578	H 609		187
1224 11 18		d T	OUTAP,OUTPUT+1	WRITE TAPE	Z	8.	0582	M (U5 I18 W		187
1225 11 19		NOP	0	WILL TAPE	Z	4	0590	N 000		187
1226 11 20		BER	TPERR		Z	5		B 221 L		187
1227 11 21		MLC	*000*,HOLDC		Z	7	0599	M M86 M91		187
1228 11 22		3	XXXX		Z	4	0606	B 000		187
1229 11 23		SBR	PUTXT+3	PUT ROUTINE	Ž	4	0610	H 705		187
1230 11 24		MLC	HOLDC, XL3		Ž	7	0614	M M91 099		188
1231 11 25		MLC	IMAGE+80, CUTPUT+80+X3	WORK AREA TO OUTPUT	Z	7	0621	M 180 II7		188
1232 11 26		CHAIN				·			MACRO	
1233		MLC			Z	1	0628	М	GEN	188
1234		MLC			Z	1	0629	М	GEN	188
1235		MLC			Z	1	0630	M	GEN	188
1236	٨	MLC			Z	1	0631	M	GEN	188
1237	۲	MLC			Z	1	0632	M	GEN	188
1238		MLC			Z	1	0633	M	GEN	189
1239		MLC			Z	1	0634	M	GEN	189
1240		MLC			Z	1	0635	M	GEN	189
1241	M	MLC			Z	1	0636	М	GEN	189

SEQ	PG	LIN	LABEL	OP	OPERANDS		SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1242				MLC			Z	1	0637	М	GEN	189
1243	11	27	TPYET	A	+80,HOLDC=3			7	0638	A M88 M91		189
1244			CKTAP	BCE	WRTP,XL3-2,0	Q. WRITE YET	Z	8	0645	B 578 097 0	** *	189
1245			OK THI	BW	DCWXT, DCWSW2	Q. DCW GT 30 CHARS	Ž	8	0653	V J85 H92 1		190
1246				BW	SPGLIN.INITSW	Q. DA RECORD	Z	8	0661	V 692 H87 1		190
1247				CS	INPUT+80	CLEAR IMAGE AND	Z	4	0669	/ 080		190
1248				SW	INPUT+21	INPUT AREAS	Z	4	0673	, 021		190
1249				MRCM	INPUT+1, IMAGE+1		Z	7	0677	P 001 101		190
1250				BW	RTNJB, JOBSW	Q. JOB CARD	Z	8	0684	V 481 199 1		190
1251			SPGLIN		IMAGE+5	WIPE OUT PG/LIN NUMBR	Z	4	0692	S 105		191
1252				S	XL3+1	ZERO INDEX	Z	4	0696	S 100		191
1253				S		LOCATIONS	Z	1	0700	S		191
1254				S			Z	1	0701	S		191
1255			PUTXT	В	XXXX	EXIT	Z	4	0702	В 000		191
1256			SAVE2	ORG	*		Z		0706	0706		
1257			CKCOM	BCE	BYPASS, INPUT+6,*	Q. COMMENTS CARD	Z	8	0706	B 520 006 *		191
1258				MN	INPUT+75,CK2+7		Z	7	0714	D 075 735		191
1259	11	43		MZ	INPUT+75,CK2+7		Z	7	0721	Y 075 735		192
1260			CK2	BCE	BYPASS, "RSWZ", 0		Z	8	0728	B 520 M95 0		192
1261	11	45		CHAIN	3						MACRO	
1262				BCE			Z	1	0736	В	GEN	192
1263				BCE			Z	1	0737	В	GEN	192
1264				BCE			Z	1	0738	В	GEN	192
1265	11	46		MLC	INPUT+84, IMAGE+80	ALTER NO TO FIXED FORM		7	0739	M 084 180		192
1266	11	47		BWZ	*+5, INPUT+6,2	Q. IS THERE LABEL	Z	8	0746	V 758 006 2		192
1267	11	48		В	PROLBL	PROCESS LABEL	Z	4	0754	B V38		193
1268	11	49		MCW	INPUT+18, IMAGE+16	MNEMONIC TO FIXED FORM		7	0758	M 018 116		193
1269				SW	SCANSW	RESET SCAN SWITCH	Z	4	0765	, N15		193
1270				MLC	'000',FREEA=3		Z	7	0769	M M86 M98		193
1271				LCA	BLANK4, EQUADD	RETRIEVE TABLE FUNCTN	Z	7	0776	L H62 N11		193
1272				MCW	*191*,XL1	THAT WAS	Z	7	0783	M NO1 089		193
1273			PLSCAN		PLUSFD, INPUT+15+X1,+	GENERATED BY PASS 3	Z	8	0790	B 817 0/5 +		194
1274			GOBK	C	XL1, 19G1		Z	7	0798	C 089 N04		194
1275				A	11991,XL1		Z	7	0805	A NO7 089		194
1276				BL	PLSCAN		Z			B 790 T		194
1277			PLUSFD		GOBK.INPUT+14+X1.+		Z	8	0817	B 798 0/4 +		194
1278				SW	EQUADD+1+X1		Z	4	0825	, N/2		194
1279				MCW	INPUT+15,EQUADD=4		Z	7	0829	M 015 N11		195
1280				S	XL1+2		Z	4	0836	\$ 091		195
1281				BW	INSTR, EQUADD	Q. REGULAR INSTRUCTION		8	0840	V N75 N11 1		195
1282				BCE	CTRLOP, EQUADD,	Q. CONTROL OP	Z	8	0848	B C61 N11		195
1283				В	INSTR		Z	4	0856	8 N75		195
1284			# 00451	-00 00	AMA OD DIANY							
1285				-uk CO	MMA OR BLANK							
1286			*	cee	CCCNVII	THREE INCATION 2	7	J.	0040	H 022		105
1287			COMSCN		CSCNXT+3	INDEX LOCATION 3	Z	4	0860	H 932		195 195
1288				S Cui	XL3+1	CONTAINS TOTAL	Z Z	7	0864 0868	S 100 , OK1 N15		195
1289			TCTCOM	SW	INPUT+21+X2,SCANSW	POSITIONS SCANNED INCLUDING COMMA OR	Z	7	0875	A N12 094		196
1290			TSTCOM	_	+1,XL2	BLANK FOR OPERAND	Z	7	0882	A N12 094 A N12 099		196
1291	11	12		A	+1,XL3	DEANK FUR UPERANU	4	4	0002	M 1146 U77		2 70

SEQ	PG	LIN	LABEL	OP	OPERANDS		SFX	ст	LOCN	INSTRUCTION TYPE	CARD
1292 1293	11	74		BCE C	PRSCXT, INPUT+20+X2,, INPUT+21+X2, BLANK2	INDEX LOCATION 2 CONTAINS TOTAL	Z Z	8 7	0889 0897	B 925 0K0 , C 0K1 H60	196 196
1294				BE	CSCNXT	POSITIONS SCANNED FOR		5	0904	B 929 S	197
1295				C	XL2, 1541 SCNERR	ALL OPERANDS SCANSW SHOWS WHETHER	Z Z	7 5	0909 0916	C 094 N14 B 933 S	197 197
1296 1297				BE B	TSTCOM	SCAN TERMINATED BY	Z	4	0921	B 875	197
1298			PRSCXT		SCANSW=1	COMMA OR TWO BLANKS	Z	4	0925) N15	197
1299			CSCNXT		XXXX		Ž	4	0929	B 000	197
1300			SCNERR		BBIT, IMAGE+5		Z	7	0933	Y 188 105	197
1301				BCE	CSCNXT, IMAGE+75,3		Z	8	0940	B 929 175 3	198
1302	11	83		8	NUREC		Z	4	0948	B 534	198
1303			*								
1304				RT FRE	E TO FIXED FORM						
1305			*	600	FOOFWELD		7		0052		100
1306			FR2FIX		FR2FXT+3		Z Z	4	0952 0956	H S32 M H59 H77	198 198
1307 1308				MCW MCW	BLANK, W6AREA XL2+1, XL3+1		Z	7	0963	M 095 100	198
1309			SCNDEX		XL3,'04'	ANY CHARACTER ADJ	Z	7	0970	C 099 N17	198
1310			JUNDEX	ВН	DOADRS	OR INDEXING	Z	5	0977	B /50 U	199
1311				BE	CKADJ		Ž	5	0982	B +17 S	199
1312				C	INPUT+18+X3,'+X'	Q. INDEXING	Z	7	0987	C 0A8 N19	199
1313				BU	CKADJ	PROCESS INDEXING	Z	5	0994	B ‡17 /	199
1314				MN	INPUT+19+X3, IMAGE+27+X1		Z	7	0999	D 0A9 1S7	199
1315	11	96		A	+K4K-3,XL3		Z	7	1006	A N22 099	199
1316				В	SCNDEX		Z	4	1013	B 970	200
1317			CKADJ	BCE	CKMIN, INPUT+18+X3,+		Z	8	1017	B /34 OA8 +	200
1318			SCANB	EQU	*-1	CHARACTER ADJUSTMENT	Z		1023	_	
1319				BCE		OR AREA DEFINITION	Z	1	1025	В	200
1320			DOMEN	BCE	TCAD L TNDUT, 10, V2	LITERAL CODE	Z Z	1	1026	8	200
1321			DOMIN	BCE BCE	ISADJ, INPUT+18+X3,-		Z	8	1027 1035	B ‡51 0A8 - B	200 200
1322 1323				BCE			Z	1	1035	8	200
1324				BCE	ISADJ, INPUT+18+X3,=		Z	8	1037	B +51 0A8 =	201
1325				BCE	100091111011201109		Ž	ĭ	1045	В	201
1326				BCE			Z	ī	1046	8	201
1327				В	DOADRS		Z	4	1047	B /50	201
1328			ISADJ	SBR	W3AREA	PROCESS CHARACTER	Z	4	1051	H H74	201
1329			PROADJ	S	+SCANB, W3AREA	ADJUSTMENT	Z	7	1055	S N25 H74	201
1330				MLC	XL2,HOLD3		Z	7	1062	M 094 H65	201
1331				MLNS	W3AREA, XL2		Z	7	1069	D H74 094	202
1332				MLC	1001		Z	4	1076	M N27	202
1333				MLC	INPUT+19+X3,W3AREA-4+X2		Z	7	1080	M 0A9 HP0	202
1334				S M Z	XL2+1,XL3+1 INPUT+20+X3,W3AREA-4+X2		Z Z	7 7	1087 1094	S 095 100 Y 080 HP0	202 202
1335 1336				MN	INPUT+20+X3, WOAREA-4+X2		Z	7	1101	D 080 H77	202
1337				SW	IMAGE+24+X1		Z	4	1101	• 1S4	203
1338				A	W3AREA-4+X2, IMAGE+26+X1	ADD CHAR ADJUSTMENT TO		7	1112	A HPO 1S6	203
1339				CW	IMAGE+24+X1	FIXED FORM	Z	4	1119) 154	203
1340				MLC	HOLD3,XL2	-	Z	7	1123	M H65 094	203
1341				В	SCNDEX		Z	4	1130	B 970	203

SEQ	PG	LIN	LABEL	OP	OPERANDS		SFX	СТ	LOCN	INSTRUCTION TYPE	CARD
1342			CKMIN	SBR	W3AREA	ACCOUNT FOR POSSIBLE	Z	4	1134	H H74	203
1343				BCE	DOMIN, INPUT+18+X3,-	MULTI-CHAR ADJ OF	Z	8	1138	B \$27 0A8 -	203
1344				В	PROADJ	+1-2 TYPE	Z	4	1146	B ‡55	204
1345			DOADRS		FREEA, XL3	PROCESS ADDRESS	Z	7	1150	S M98 099	204
1346				C	XL3,+007	Q. OLLEGAL ADDRESS	Z	7	1157	C 099 N30	204
1347				BL	FIXER	LENGTH	Z	5	1164	B S33 T	204
1348				A	FREEA, XL3		Z	7	1169	A M98 099	204
1349				MZ	BLANK, XL3		Z	7	1176	Y H59 099	204
1350				MCW	'#', INPUT+20+X3		Z Z	7 7	1183 1190	M N31 0B0 M M98 099	205 205
1351				MLC	FREEA, XL3	MOVE ADDRESS TO IMAGE		7	1197	P 0B1 1/7	205
1352 1353				MRCM SBR	INPUT+21+X3,IMAGE+17+X1 XL3	MOVE ADDRESS TO IMAGE	Z Z	4	1204	H 099	205
1354				MZ	ABBIT, XL3		Z	7	1204	Y 189 099	205
1355				MCW	BLANK,4000-1+X3		Z	7	1215	M H59 II9	205
1356				MN	W6AREA,IMAGE+23+X1		Z	7	1222	D H77 1S3	206
1357			FR2FXT		XXXX	EXIT	Ž	4	1229	B 000	206
1358			FIXER	SW	FIXSW=1		Ž	4	1233	, N32	206
1359			OPDER	MCW	'000',XL3	CODE STATEMENT	Ž	7	1237	M M86 099	206
1360			0.00.	MZ	ABIT, IMAGE+5	BAD BUT PROCESSABLE	Ž	7	1244	Y 187 105	206
1361				BCE	*+8,XL1,0	5/10 50: (1.00±005±1	Ž	8	1251	B \$66 089 0	206
1362				MCW	'003',XL3		Ž	7	1259	M N35 099	207
1363				MCW	'===',IMAGE+70+X3		Z	7	1266	M N38 1G0	207
1364				MZ	ABBIT, IMAGE+1+X3		Z	7	1273	Y 189 1+1	207
1365				BW	FR2FXT,FIXSW		Z	8	1280	V S29 N32 1	207
1366				В	LTER2		Z	4	1288	B U09	207
1367			*								
1368			*SCAN	FOR *	SIGN						
1369	12	50	*								
1370	12	51	SCANAT	SBR	SCNATX+3		Z	4	1292	H T85	207
1371	12	52		SW	INPUT+21+X2,SCANSW	SCAN IS EXECUTED FROM	Z	7	1296	, OK1 N15	208
1372				ZA	'510',XL3+1	RIGHT TO LEFT	Z	7	1303	+ N41 100	208
1373			Alalf	BCE	NDASCN, INPUT+21+X3,		Z	8	1310	B T29 OB1 •	208
1374				S	+10,XL3+1		Z	7	1318	S N43 100	208
1375				В	Alalf		Z	4	1325	B T10	208
1376			NDASCN		XL2,XL3	Q. NO ENDING ' SIGN	Z			C 094 099	209
1377				BE	LTERR		Z		1336	B T94 S	209
1378				BCE	SETSW, INPUT+22+X3,,	Q. IS ENDING ' SIGN	Z	8	1341	B T86 OB2 ,	209
1379				C	INPUT+23+X3,BLANK2	FOLLOWED BY COMMA OR		7	1349	C 083 H60	209
1380				BU	LTERR	TWO BLANKS	Z	5	1356	B T94 /	209
1381			SXL	S	XL2+1,XL3+1		Z	7	1361	\$ 095 100	209
1382				A	+2,XL3		Z	7	1368	A N44 099	210
1383			CCMATY	A	XL3, XL2	EVIT	2	7	1375	A 099 094	210
1384			SCNATX		XXXX	EXIT	2	4 4	1382 1386	B 000) N15	210
1385			SETSW		SCANSW		Z	4	1390	7 N15 B T61	210 210
1386			•	В	SXL		4	4	1340	D 101	210
1387			# # T M D D ():	DEDIV	CODED STATEMENT ROUTINE						
1388 1389			* 1 MPKU	FERLI	CODED STATEMENT ROUTINE						
1390			LTERR	M1 7 C	ABIT, IMAGE+5	MARK STATEMENT	Z	7	1394	Y 187 105	210
1391			CILNA	CW	FIXSW	BAD BUT PROCESSABLE	Z) N32	210
2012		•		- n	1 4/14/1	DAG DOT THOUSEDURDEE	-	*		- · · · · · · ·	

1302 12 73	SEQ PG LIN	LABEL	OP	OPERANDS		SFX	CT	LOCN	INSTRUCTION TYPE	CARD
1393 12 74			0.			J	•		_	
1395 12 75			В							
1395 12 76		LTER2	_		•		4			
1396 12 77			MCW	•••, INPUT+20+X3			7			
139F 12 78 ** 139F 12 79 ** 1400 12 81			A	+1,XL3			7			
1398 12 79	1396 12 77		В	SCNATX		Z	4	1427	B T82	211
1399 12 80 *										
1400 12 81 CALL		*PLACE	LITER	ALS ON MASTER TAPE						
1402 12 82	1399 12 80	*								
1402 12 83	1400 12 81	CALL	BW	CKLOR, LITSW=1	Q. ANY LITERALS	Z	8		V U85 N46 1	211
1403 12 84	1401 12 82		RT	SYSTAP, INPUT+1		Z	8	1439	M (U1 001 R	212
1404 12 85	1402 12 83		RTW	SYSTAP, DOPROG	LITERALS OVERLAP	Z	8	1447	L (U1 N75 R	212
1405 12 86	1403 12 84		NOP	0		Z	4	1455	N 000	212
1406 12 87 RECALL RTW SYSTAP, DOPROG RECALL MAIN LINE Z 8 1468 L U1 N75 R 212 1407 12 86 BER TPERR Z 4 1476 N 000 213 1408 L 289 BER TPERR Z 5 1480 B 221 L 213 1409 L 290 CKLOR BCE BYPASS, IMAGE+75, C Q. LITERAL ORIGIN Z 8 1485 B 520 175 C 213 1410 L 291 BCE NUREC, IMAGE+75, C Q. EXECUTE Z 8 1493 B 534 175 C 213 1411 L 292 RT SYSTAP, INPUT+1 SKIP PAST OVERLAPS Z 8 1509 M U1 001 R 214 1414 L 293 N C N C N C C C C C	1404 12 85		BER	TPERR		Z	5	1459	B 221 L	212
1406 12 87 RECALL RTW SYSTAP, DOPROG RECALL MAIN LINE Z 8 1468 L U1 N75 R 212 1407 12 86 BER TPERR Z 4 1476 N 000 213 1408 L 289 BER TPERR Z 5 1480 B 221 L 213 1409 L 290 CKLOR BCE BYPASS, IMAGE+75, C Q. LITERAL ORIGIN Z 8 1485 B 520 175 C 213 1410 L 291 BCE NUREC, IMAGE+75, C Q. EXECUTE Z 8 1493 B 534 175 C 213 1411 L 292 RT SYSTAP, INPUT+1 SKIP PAST OVERLAPS Z 8 1509 M U1 001 R 214 1414 L 293 N C N C N C C C C C	1405 12 86		В	OVLLIT	GO TO ROUTINE	Z	4	1464	B N75	212
1407 12 88		RECALL	RTW	SYSTAP, DOPROG	RECALL MAIN LINE	Z	8	1468	L (U1 N75 R	
1408 12 89					OVERLAP		4	1476	N 000	
1400 12 9 0				TPERR			5			
1410 12 91		CKLOR			Q. LITERAL ORIGIN					
1411 12 92										
1412 12 93										
1413 12 94										
1414 12 95										
1415 12 96					SOD GVENEAL					
1416 12 97										
1417 12 98			_							
1418 12 99		_	В	EUJKI		4	7	1754	B 100	214
1419 13 00 * 1420 13 01 PROLBL SBR XTLABL+3			ATE EN	TOV ADDRESS EDD LARELS						
1420 13 01 PROLBL SBR XTLABL+3 1421 13 02 MLC INPUT+11,IMAGE+13 1422 13 03 MLC IMAGE+13,W6AREA 1423 13 04 B PROLAB 1424 13 05 MLC W3AREA,IMAGE+56 1425 13 06 A +1,TOTLBL 1426 13 07 XTLABL B XXXX 1427 13 08 ** 1428 13 09 **CONVERT FREE FORM NUMBER TO FIVE CHARACTERS 1429 13 10 * 1430 13 11 CVRT5 SBR CVT5XT+3 1431 13 12 BCE *+5, W5AREA,+ 1430 13 13 CVT5XT B XXXX 12 4 1578 H V93 1431 13 12 BCE *+5, W5AREA,+ 1430 13 14 CVB SBR CVT5XT+3 1431 13 15 B CVFT5+4 1431 13 15 B CVRT5+4 1431 13 16 * 1431 13 18 * 1431 13 19 FNLCP SBR FNLXT+3 1431 13 10 * 1431 13 12 B CVRT5+4 1431 13 15 B CVRT5+4 1431			AIE EN	IIRT ADDRESS FOR LABELS						
1421 13 02			COD	VTI ADI 12		7		1520	U V77	216
1422 13 03		PRULBL								
1423 13 04 B PROLAB 1424 13 05 MLC W3AREA,IMAGE+56 1425 13 06 A +1,TOTLBL 1426 13 07 XTLABL B XXXX 2 7 1567 A N12 198 215 1427 13 08 * 1428 13 09 **CONVERT FREE FORM NUMBER TO FIVE CHARACTERS 1429 13 10 * 1430 13 11 CVRT5 SBR CVT5XT+3 1431 13 12 BCE **+5,**M5AREA,+ 1432 13 13 CVT5XT B XXXX 2 4 1578 H V93 2 16 1433 13 14 ZA W5AREA-1,**W5AREA 1434 13 15 B CVRT5+4 2 16 1434 13 15 B CVRT5+4 2 16 1435 13 16 * 1436 13 17 **CHECK FOR FINAL OPERAND 1437 13 18 * 1438 13 19 FNLOP SBR FNLXT+3 1438 13 19 FNLOP SBR FNLXT+3 1439 13 20 1440 13 21 MZ ABIT,IMAGE+5 1440 13 21 MZ ABIT,IMAGE+5 1450 BLANKS 2 7 1617 Y 187 105 217										
1424 13 05										
1425 13 06										
1426 13 07 XTLABL B XXXX							-			
1427 13 08										
1428 13 09			В	XXXX		L	4	1574	B 000	215
1429 13 10 * 1430 13 11				E COM MUNICIPA TO ETHE CHARACTE						
1430 13 11			KI FKE	E FORM NOWBER IN FIRE CHARACTE	:RS					
1431 13 12 BCE *+5, W5AREA,+						_				
1432 13 13 CVT5XT B XXXX 1433 13 14		CVRT5								
1433 13 14							-			
1434 13 15 B CVRT5+4 1435 13 16 * 1436 13 17 * CHECK FOR FINAL OPERAND 1437 13 18 * 1438 13 19 FNLOP SBR FNLXT+3 1439 13 20 BW FNLXT, SCANSW 1440 13 21 MZ ABIT, IMAGE+5 2 4 1601 B V82 2 7 1617 Y 187 105		CVT5XT					-			
1435 13 16 # 1436 13 17 # CHECK FOR FINAL OPERAND 1437 13 18 # 1438 13 19 FNLOP SBR FNLXT+3			ZA				7			
1436 13 17 * CHECK FOR FINAL OPERAND 1437 13 18 * 1438 13 19 FNLOP SBR FNLXT+3 Q. FINAL OPERAND Z 4 1605 H W27 216 1439 13 20 BW FNLXT, SCANSW FOLLOWED BY TWO Z 8 1609 V W24 N15 1 216 1440 13 21 MZ ABIT, IMAGE+5 BLANKS Z 7 1617 Y 187 105 217			8	CVRT5+4		Z	4	1601	B V82	216
1437 13 18 * 1438 13 19 FNLOP SBR FNLXT+3 Q. FINAL OPERAND Z 4 1605 H W27 216 1439 13 20 BW FNLXT, SCANSW FOLLOWED BY TWO Z 8 1609 V W24 N15 1 216 1440 13 21 MZ ABIT, IMAGE+5 BLANKS Z 7 1617 Y 187 105 217										
1438 13 19 FNLOP SBR FNLXT+3 Q. FINAL OPERAND Z 4 1605 H W27 216 1439 13 20 BW FNLXT, SCANSW FOLLOWED BY TWO Z 8 1609 V W24 N15 1 216 1440 13 21 MZ ABIT, IMAGE+5 BLANKS Z 7 1617 Y 187 105 217	1436 13 17	* CHEC	K FOR	FINAL OPERAND						
1439 13 20 BW FNLXT, SCANSW FOLLOWED BY TWO Z 8 1609 V W24 N15 1 216 1440 13 21 MZ ABIT, IMAGE+5 BLANKS Z 7 1617 Y 187 105 217	1437 13 18	*								
1440 13 21 MZ ABIT, IMAGE+5 BLANKS Z 7 1617 Y 187 105 217	1438 13 19	FNLOP	SBR	FNLXT+3	Q. FINAL OPERAND	Z	4	1605	H W27	216
1440 13 21 MZ ABIT, IMAGE+5 BLANKS Z 7 1617 Y 187 105 217	1439 13 20		BW	FNLXT, SCANSW	FOLLOWED BY TWO	Z	8	1609	V W24 N15 1	216
·							7			
		FNLXT	В			Z	4	1624	В 000	

SEQ PG LIN	LABEL	OP	OPERANDS		SFX	СТ	LOCN	INSTRUCTION TYPE	CARD
1442 13 23	*								
1443 13 24	*CONVER	T FLO	ATING A OPERAND ACTUAL ADDRESS	TO FIVE CHARACTERS					
1444 13 25	*								
1445 13 26	CVTFLA	SBR	FLAXT+3		Z	4	1628	H W46	217
1446 13 27		ZA	IMAGE+21, W5AREA		Z	7	1632	+ 121 H76	217
1447 13 28		В	CVRT5	LINK TO SUBROUTINE	Z	4	1639	8 V78	217
1448 13 29	FLAXT	В	XXXX		Z	4	1643	В 000	217
1449 13 30	*								
1450 13 31	*CONVER	T SYME	BOLS TO THREE CHARACTER ENTRY A	DDRESS					
1451 13 32	#								
1452 13 33	PROLAB	SBR	LBLXT+3		Z	4	1647	H Y10	217
1453 13 34		ZA	+2,HOLD2		Z	7	1651	+ N44 H64	218
1454 13 35		BCE	*+5,W6AREA,	ADD SUFFIX CHAR TO	Z	8	1658	B W70 H77	218
1455 13 36		В	*+8	LABELS FIVE CHARS	Z	4	1666	B W77	218
1456 13 37		MCW	SFXHLD, W6AREA	OR LESS	Z	7	1670	M H86 H77	218
1457 13 38		ZA	W6AREA-2,HOLD4		Z	7	1677	+ H75 H71	218
1458 13 39		A	W6AREA, HOLD4	FOLD SYMBOL TO	Z	7	1684	A H77 H71	219
1459 13 40		A	W6AREA, HOLD4-2	FOUR CHARACTERS	Z	7	1691	A H77 H69	219
1460 13 41		MLZS	BLANK, HOLD4	MULTINIA DA 646700	Z	7	1698	Y H59 H71	219
1461 13 42		ZA	The state of the s	MULTIPLY BY FACTOR	2	7	1705	+ H48 H84	219
1462 13 43		MLNS	HOLD7, HOLC1		2	7	1712	D H84 H85	219
1463 13 44		ZA	NIVIDOT HOLDS 4		Z	1	1719	4 n v// 1105 i	219
1464 13 45	MULT	BCE	NXTDGT, HOLD1, +		Z	8	1720	B X46 H85 + A H71 H82	220
1465 13 46 1466 13 47		A S	HOLD4, HOLD7-2		Z	7 7	1728 1735	S N12 H85	220
1467 13 48		S В	+1,HOLD1 MULT		Z	4	1742	B X20	220 220
1468 13 49	NXTDGT		+1,HOLD2		Z	7	1746	S N12 H64	220
1469 13 50		BWZ	MPYLP, HOLD2, B		Z	8	1753	V X12 H64 B	221
1470 13 51		S	W5AREA		Z	4	1761	S H76	221
1471 13 52		BAV	*+1		Z	5	1765	B X70 Z	221
1472 13 53		A		FOLD FIVE CHARACTER	2	7	1770	A N48 H79	221
1473 13 54		BAV	LOOP1	RESULT TO THREE	Ž	5	1777	B X70 Z	221
1474 13 55		MLZS	HOLD7-6, W3AREA	CHARACTER TABLE ENTRY		7	1782	Y H78 H74	221
1475 13 56		MLC	HOLD7-3	ADDRESS	Ž	4	1789	M H81	222
1476 13 57		MLNS	HOLD7-5,*+4		Z	7		D H79 Y03	222
1477 13 58		MLZS	ZONE, W3AREA-2		Z	7	1800	Y 189 H72	222
1478 13 59	LBLXT	В	XXXX		Z	4	1807	В 000	222
1479 13 60	*								
1480 13 61	*PROCES	S DCW	DC, DSA CARDS						
1481 13 62	#								
1482 13 63		BCE		Q. ALPHA CONSTANT	Z	8	1811	B K44 021 •	222
1483 13 64		BCE		Q. AREA DEFINITION	Z	8	1819	B L01 021 =	222
1484 13 65		BCE	CKDCW, INPUT+21,+	Q. NUMERIC LITERAL	Z	8	1827	B Y58 021 +	223
1485 13 66		BCE	CKDCW, INPUT+21,-		Z	8	1835	8 Y58 021 -	223
1486 13 67		MLC	INPUT+72, INPUT+73	SHIFT RIGHT	Z	7	1843	M 072 073	223
1487 13 68		MCW	1+1		Z	4	1850	M N49	223
1488 13 69		SW	DCWSW	SET NO ZONING SWITCH	Z	4	1854	, H89	223
1489 13 70		В	COMSCN	SCAN FOR BLANK	Z	4	1858	8 860	223
1490 13 71		BCE	ISDSA, INPUT+22,	Q. ADCON OF LITERAL	4	8	1862	8 Y90 022 1	224
1491 13 72		В	FNLOP	CHECK LAST OPERAND	Z	4	1870	B W05	224

SEQ PG LIN	LABEL	OP	OPERANDS		SFX	СТ	LOCN	INSTRUCTION TYPE	CARD
1492 13 73		BCE	ISDSA, IMAGE+75, J	Q. DSA STATEMENT	Z	8	1874	B Y90 175 J	224
1493 13 74		BWZ	ISDCW, INPUT+22, 2	Q. DC, DCW STATEMENT	Z	8	1882	V K71 022 2	224
1494 13 75	*								
1495 13 76	*PROCES	SS DSA	CARDS, SUBSET OF DCW						
1496 13 77	#								
1497 13 78	ISDSA	MLC	'011',XL1		Z	7	1890	M N52 089	224
1498 13 79		MLNS	+2,IMAGE+75	CODE RECORD	Z	7	1897	D N44 175	225
1499 13 80		MZ	INPUT+21, IMAGE+27		Z	7	1904	Y 021 127	225
1500 13 81		MCW	BLANK, INPUT+21		Z	7	1911	M H59 021	225
1501 13 82		BWZ	*+5, IMAGE+75, K		Z	8	1918	V Z30 175 K	225
1502 13 83		В	*+8		Z	4	1926	B Z37	225
1503 13 84		MZ	BLANK, IMAGE+75	CET DEL CUITOU	Z	7	1930	Y H59 175	226
1504 13 85		SW	DSASW2	SET DSA SWITCH	Z	4	1937	, H91	226
1505 13 86		MLC	'001',FREEA		Z	7	1941	M N55 M98	226
1506 13 87		MCW	INPUT+34, IMAGE+53		Z	7	1948	M 034 153	226
1507 13 88		BCE	DSADC, INPUT+22,		2	8	1955	B L54 022 1	226
1508 13 89		BCE	DSADC, INPUT+22,+		Z Z	8	1963	B L54 022 +	227
1509 13 90		BCE	DSADC, INPUT+22,-	CONVERT FREE TO FIXED	Z	8 4	1971 1979	8 L54 022 - 8 952	227 227
1510 13 91		B N 7	FR2FIX	CONVERT FREE TO FIXED	Z	7	1983	Y 127 021	227
1511 13 92 1512 13 93	DSAX1	M Z M Z	IMAGE+27, INPUT+21 IMAGE+27, IMAGE+40		Z	7	1990	Y 127 021 Y 127 140	227
1512 15 95	DOWYI	MLC	*03*,IMAGE+7	INSERT COUNT	Z	7	1997	M N57 107	228
1514 13 95		MLC	1031,XL2	INSERT COOK!	Z	7	2004	M N57 094	228
1515 13 96	CKAOP	BCE	DCWAST, INPUT+6,	Q. ANY LABEL	Z	8	2011	B -68 006	228
1516 13 97	CKAGI	BWZ	DCWAST, IMAGE+75, S	Q. LITERAL	Z	8	2019	V -68 175 S	228
1517 13 98		BWZ	*+5, INPUT+6, 2	Q. ACTUAL ADDRESS	Ž	8	2027	V -39 006 2	228
1518 13 99		В	DCWAST		Z	4	2035	B -68	229
1519 14 00		MLC	INPUT+10, IMAGE+21	PROCESS ACTUAL	Z	7	2039	M 010 121	229
1520 14 01		В	CVTFLA	ADDRESS	Z	4	2046	B W28	229
1521 14 02	DCWACT	MLC	W5AREA, IMAGE+21	ADDRESS TO FIXED	Z	7	2050	M H76 121	229
1522 14 03		MLC	W5AREA, IMAGE+61	FORM	Z	7	2057	M H76 161	229
1523 14 04		В	CKMACR		Z	4	2064	8 -89	229
1524 14 05	DCWAST	A	XL2,ORGCTR	BUMP ORIGIN COUNTER	Z	7	2068	A 094 H58	230
1525 14 06	BMPCTR	MCW	***, IMAGE+17	SET TO DCW *	Z	7	2075	M N58 117	230
1526 14 07	DSETAD	Α	ORGCTR, IMAGE+61	ASSIGN ADDRESS	Z	7	2082	A H58 161	230
1527 14 08	CKMACR	BCE	NUREC.IMAGE+75.P	Q. EQU STATEMENT	Z	8	2089	B 534 175 P	230
1528 14 09		BCE	NUREC, IMAGE+75, X	Q. DS STATEMENT	Z	8	2097	B 534 175 X	230
1529 14 10		BW	DCWXT, DSASW2	Q. DSA STATEMENT	Z	8	2105	V J85 H91 1	231
1530 14 11		MLC	INPUT+51, IMAGE+53	MOVE CONSTANT TO	Z	7	2113	M 051 153	231
1531 14 12		MLC		FIXED FORM	2	1	2120	M	231
1532 14 13		MLC			Z	1	2121	M	231
1533 14 14		MLC	XL2, IMAGE+7	COUNT TO FIXED FORM	Z	7	2122	M 094 107	231
1534 14 15		C	XL2,'030'	Q. COUNT GREATER THAN	Z	7	2129	C 094 N61	231
1535 14 16		ВН	DCWXT	30	. 2	5	2136	B J85 U	231
1536 14 17		MN	181, INPUT+75	WRITE FREE FORM RECORE	, 4	7	2141	D N62 075	232
1537 14 18		BWZ	*+8,IMAGE+75,B	ON TAPE	2	8 7	2148 2156	V J63 175 B Y 175 075	232
1538 14 19		MZ	IMAGE+75, INPUT+75		Z	7	2156	M M91 099	232 232
1539 14 20		MCW MCW	HOLDC, XL3 INPUT+80, GUTPUT+80+X3		Z	7	2170	M 080 II7	232
1540 14 21 1541 14 22		SW	DCWSW2		Z	4	2177	• H92	233
1341 14 66		S M	DUNGINE		۷	7	2111	¥ 1172	255

1401 AUTOCODER-PASS 4-LEFT MAIN LINE

SEQ	PG	LIN	LABEL	OP	OPERANDS		SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
1542	14	23		В	TPYET		Z	4	2181	B 638		233
1543	14	24	DCWXT	CW	DSASW2,DCWSW2	RESET SWITCHES	Z	7	2185) H91 H92		233
1544	14	25		BW	#+5,LITSW2		Z	8	2192	V KO4 H90 1		233
1545	14	26		В	NUREC		Z	4	2200	B 534		233
1546	14	27		BCE	LITRTN, INPUT+21, *		Z	8	2204	B P31 021 '		233
1547	14	28		BCE	LTGEN, INPUT+22,+	Q. ADCON OF LITERAL	Z	8	2212	B M00 022 +		234
1548	14	29		BCE	LTGEN, INPUT+22,-		Z	8	2220	B M00 022 -		234
1549	14	30		BCE	LTGEN, INPUT+22,		Z	8	2228	B M00 022 1		234
1550	14	31		В	LITRTN		Z	4	2236	B P31		234
1551	14	32	PDCWLF	S	XL2+2		Z	4	2240	S 096		234
1552	14	33	DCWALF	В	SCANAT	SCAN FOR ENDING * SIGN	Z	4	2244	B S92		234
1553	14	34		В	FNLOP	CHECK LAST OPERAND	Z	4	2248	B W05		235
1554	14	35		BW	ACNRT, DSASW2	Q. ADCON OF LITERAL	Z	8	2252	V L62 H91 1		235
1555	14	36		S	+30,XL2+1		Z	7	2260	S N64 095		235
1556	14	37		В	CKAOP		Z	4	2267	B -11		235
1557	14	38	ISDCW	S	+20,XL2+1		Z	7	2271	S N66 095		235
1558	14	39		BW	NOZONE, DCWSW	Q. CONSTANT ZONED	Z	8	2278	V K93 H89 1		235
1559	14	40		MLZS	INPUT+21, INPUT+21+X2	ZONE CONSTANT	Z	7	2286	Y 021 0K1		236
1560	14	41	NOZONE	CW	DCWSW		Z	4	2293) H89		236
1561	14	42		В	CKAOP		2	4	2297	B -11		236
1562	14	43	ARDEF	SW	INPUT+22	PROCESS AREA	Z	4	2301	, 022		236
1563	14	44		ZA	INPUT+24,W5AREA		Z	7	2305	+ 024 H76		236
1564	14	45		В	CVRT5		Z	4	2312	B V78		236
1565				MLZS	ABBIT, IMAGE+4	CODE RECORD	Z	7	2316	Y 189 104		236
1566	14	47		MLNS	W5AREA, XL2		Z	7	2323	D H76 094		237
1567	14	48		MLC			Z	1	2330	M		237
1568				С	XL2, 10531	Q. ILLEGAL LENGTH	Z	7	2331	C 094 N69		237
1569				ВН	CKAOP		Z	5	2338	B -11 U		237
1570				MZ	BBIT, IMAGE+5	MARK BAD STATEMENT	Z	7	2343	Y 188 105		237
1571	14	52		В	CKAOP		Z	4	2350	B -11		237
1572			DSADC	BCE	PDCWLF, INPUT+22, 1	Q. ADCON OF ALPHA LIT	Z	8	2354	B K40 022 '		237
1573			ACNRT	S	+10,XL3+1		Z	7	2362	S N43 100		238
1574				MCW	XL3,W3AREA		Z	7	2369	M 099 H74		238
1575				C	XL3, 006	Q. LARGE LITERAL	Z	7	2376	C 099 N72		238
1576				BL	DOBIG		Z	5	2383	B A57 T		238
1577				BCE	XALF1, INPUT+22,	Q. ALPHA LITERAL	Z	8	2388	B +93 022 1		238
1578				В	XLIT1		Z	4	2396	B B82		238
1579			LTGEN	В	PUT	PUT ADCON	Z	4	2400	B 610		239
1580				MCW	1/1,IMAGE+75	SET UP LITERAL	Z	7	2404	M N73 175		239
1581				MCW	LAREA+72, INPUT+72	TO BE PROCESSED	Ζ	7	2411	M H31 072		239
1582				MCW		NOTE. ADDRESS CONSTANT	Z	1	2418	M		239
1583				MCW		LOGIC MAKES IT	Z	1	2419	М		239
1584				MCW		RECURSIVE	Z	1	2420	М		239
1585				MCW	LAREA+74, LAREA+73		Z	7	2421	M H33 H32		239
1586				В	PROLBL		Z	4	2428	B V38		240
1587				S	XL2+2		Ž	4	2432	\$ 096		240
1588				S	_		Z	1	2436	S		240
1589				В	DCWCD		Ž	4	2437	B Y11		240
1590			*	-	•		-	•				
1591				IN DA	ROUTINE							
				-								

SEQ PG LIN	LABEL	OP	OPERANDS		SFX	СТ	LOCN	INSTRUCTION	TYPE	CARD
1592 14 73 1593 14 74	* DARTN	RTW	SYSTAP, DOPROG	CALL DA ROUTINE	Z	8	2441	L (U1 N75 R		240
1594 14 75		NOP	0		Z	4	2449	N 000		240
1595 14 76		BER	TPERR		Z	5	2453	B 221 L		240
1596 14 77		В	DASTMT	GO TO DA ROUTINE	Z	4	2458	B N75		241
1597 14 78	FINDA	RTW	SYSTAP, DOPRCG		Z	8	2462	L (U1 N75 R		241
1598 14 7 9		NOP	0		Z	4	2470	N 000		241
1599 14 80		BER	TPERR		Z	5	2474	B 221 L		241
1600 14 81		В	CKCOM		Z	4	2479	B 706		241
1601 14 82		LTORG	# .		Z	•	2422	2483		0.11
		DCW	101		Z	1	2483		LIT	241
			10001		Z Z	3 2	2486 2488		LIT	241
1243	HOLDC		+80 =03		2	3	2491		LIT AREA	242 242
1245	HUEDC		'RSWZ'		Z	4	2495		LIT	242
1270	FREEA		=03		Z	3	2498		AREA	242
1210	INCOM		11911		Z	3	2501		LIT	242
			19G		Ž	3	2504		LIT	242
			11991		Ž	3	2507		LIT	242
1279	EQUADD		=04		Z	4	2511		AREA	243
			+1		Z	1	2512		LIT	243
			1541		Z	2	2514		LIT	243
1298	SCANSW		=01		Z	1	2515		AREA	243
			1041		Z	2	2517		LIT	243
			1+X1		2	2	2519		LIT	243
1315			+K4K-3		Z	3	2522	197	ADCON	243
1329			+SCANB		Z	3	2525	‡23	ADCON	244
			1001		Z	2	2527		LIT	244
			+007 **		Z Z	3 1	2530 2531		LIT	244 244
1358	FIXSW		=01		Z	1	2532		AREA	244
1330	LIVON		10031		Z	3	2535		LIT	244
			t===t		Z	3	2538		LIT	244
			15101		2	3	2541		LIT	245
			+10		Ž	2	2543		LIT	245
			+2		Z	1	2544		LIT	245
			111		Z	1	2545		LIT	245
1400	LITSW		=01		Z	1	2546		AREA	245
			+96		Z	2	2548		LIT	245
			+		Z	1	2549		LIT	245
			'011'		Z	3	2552		LIT	246
			'001'		Z	3	2555		LIT	246
			1031		Z	2	2557		LIT	246
			1#1		Z	1	2558		LIT	246
			10301		7	3	2561		LIT	246
			8 +30		Z Z	1 2	2562 2564		LIT	246 246
			+20		Z	2	2566		LIT	247
			10531		Z	3	2569		LIT	247
			10061		Ž	3	2572		LIT	247
						-	_			

1401 AUTOCODER-PASS 4-LEFT MAIN LINE

SEQ PG LIN	LABEL O	P OPERANDS		SFX CT	LOCN	INSTRUCTION TYPE	CARD
		1/1		Z 1	2573	LIT	247
1602 14 83	GRPMK5 D	CW * *	SYSTEM GROUP MARK	Z 1	2574		247
1603 14 84	E	X DOZERO		Z		В 000	248

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1401 AUTOCODER-PASS 4-LEFT MAIN LINE

SEQ PG LIN	LABEL	OP	OPERANDS		SFX	СТ	LOCN	INSTRUCTION TYPE	CARD
1604 14 85	,	JOB	1401 AUTOCOCER-PASS 4 PROCESS	JOB/CTL -VERSION 3	3				
1605 14 86	*								
1606 14 87	*PROCES:	S CONT	FROL CARD						
1607 14 88	*								
1608 14 89	DOPROG (ORG	*		Z		2575	2575	
1609 14 90	START	CS	INPUT+84		Z	4	2575	/ 084	251
1610 14 91		CS	3999		Z	4	2579	/ 199	251
1611 14 92		SW	INPUT+21, INPUT+81	SET WORD MARKS IN	Z	7	2583	, 021 081	251
1612 14 93		SW	IMAGE+1, IMAGE+6	FIXED FORM IMAGE AREA	A Z	7	2590	, 101 106	251
1613 14 94		SW	IMAGE+8, IMAGE+14		Z	7	2597	, 108 114	251
1614 14 95		SW	IMAGE+17, IMAGE+28		Z	7	2604	, 117 128	251
1615 14 96		SW	IMAGE+39, IMAGE+57		Z	7	2611	, 139 157	252
1616 14 97		SW	IMAGE+62, IMAGE+67 IMAGE+23		Z Z	7	2618 2625	, 162 167 , 123	252
1617 14 98 1618 14 99		SW SW	GRPMK1,GRPMK8	INITIALIZE GROUP MARKS	_	4 7	2629	, 085 H99	252 252
1619 15 00		SW	GRPMK3,GRPMK4	INTITACTZE GROUP MARKS) <u>L</u>	7	2636	, H44 185	252
1620 15 01		CW	INITSW		Z	4	2643) H87	252
1621 15 02		RWD	INTAP		Z	5	2647	U (U4 R	253
1622 15 03		RWD	OUTAP		Ž	5	2652	U (U5 R	253
1623 15 04		RWD	LITAPE		Ž	5	2657	U (U6 R	253
1624 15 05		MLC	'000',HOLDC		Z	7	2662	M R16 M91	253
1625 15 06		В	GET	GET JOB CARD	Z	4	2669	B 538	253
1626 15 07	1	MCW	INPUT+80, IMAGE+21	PROCESS JOB CARD	Z	7	2673	M 080 121	253
1627 15 08	1	MCW	'I', IMAGE+75	IDENTIFICATION	Z	7	2680	M R17 175	254
1628 15 09	:	SW	3998		Z	4	2687	• I98	254
1629 15 10		В	GET	GET SECOND RECORD	Z	4	2691	B 538	254
1630 15 11		BCE	NOCTL, INPUT+6,*	Q. COMMENTS CARD	Z	8	2695	B Q71 006 *	254
1631 15 12		С	INPUT+18, CTL'	Q. CONTROL CARD	2	7	2703	C 018 R20	254
1632 15 13		BU	NOCTL		Z	5	2710	8 Q71 /	254
1633 15 14		MLNS	INPUT+21,CTL3+7	CHECK PROCESSOR SIZE	Z	7	2715	D 021 P29	255
1634 15 15		BCE	CTL2,CKPRO,	FOR VALID CODE	2	8	2722	B P37 R13	255
1635 15 16		BCE			2	1	2730	8	255 255
1636 15 17 1637 15 18		BCE BCE			Z	1	2731 2732	8 B	255 255
1638 15 19		вс <u>е</u> В	NOCTL		Z Z	1 4		B Q71	255
1639 15 20		MLC	INPUT+21, PROCOR	INITIALIZE AREAS	Z	7		M 021 194	255
1640 15 21		ZA	INPUT+21,XL1	INTITACIZE AREAS	7	7	2744	+ 021 089	256
1641 15 22		S	+30,XL1+1	PROCESSOR MACHINE	Ž	7	2751	S R22 090	256
1642 15 23		Ă	XL1	SIZE	Z	4	2758	A 089	256
1643 15 24		Å	XL1		2	4	2762	A 089	256
1644 15 25		MLC	FCTBL+X1, FACTOR		2	7	2766	M QZ7 H48	256
1645 15 26		MLC	'O',FACTOR-3		Z	7	2773	M R23 H45	256
1646 15 27		MLC	FCTBL-3+X1,CKTAP+7		Z	7	2780	M QZ4 652	257
1647 15 28		BCE	IS16K,INPUT+21,6	Q. 16K PROCESSOR	Z	8	2787	B Q52 021 6	257
1648 15 29		BCE	IS16K, INPUT+21,5	Q. 16K PROCESSOR	Z	8	2795	B Q52 021 5	257
1649 15 30		BCE	IS8K, INPUT+21,4	Q. 8K PROCESSOR	Z	8	2803		257
1650 15 31	i	MLC	*3*,PROCOR		Z	7	2811	M R24 194	257
1651 15 32	*								
1652 15 33		ALIZE	OUTPUT AREA AND SET UP BLOCKIN	IG SIZE					
1653 15 34	#								

	SEQ	PG	LIN	LABEL	OP	OPERANDS			SFX	СТ	LOCN	INSTRUCTION	TYPE	CARD
1	654	15	25	IS4K	LCA	GRPMK8,3998	SET GROUP MARK AT	END	Z	7	2818	L H99 I98		258
	655			1341	В	PUT	SET OROGI HARRING		Ž	4	2825	B 610		258
	656				В	LDOPTB	OF OUTPUT AREA		Z	4	2829	B 489		258
	657			IS8K		GRPMK8,4318	OF BOTT OF AREA		7	7	2833	L H99 31Y		258
				1201	LCA	1(1			Z	4	2840	M R25		258
	658				MCW				Z	7 4	2844	M 31X		258
	659				MCW	4317			Z	7 /-	2848	B 469		258
	660				8	CWI98				7		L H99 71Y		
	661			IS16K	LCA	GRPMK8,4718			Z	1	2852			259
	662				MCW	• (•			Z	4	2859	M R25		259
	663				MCW	4717			Z	4	2863	M 71X		259
	664				В	CWI98	DOOCECC WEN NO		Z	4	2867	B 469		259
	665			NOCTL	MLC	FCTBL, FACTOR	PROCESS WHEN NO		Z	1	2871	M Q97 H48		259
	666				MLC	131, PROCOR	CONTROL CARD		Z	7	2878	M R24 194		259
	667				BSP	INTAP			Z	5	2885	U (U4 B		259
	668				В	IS4K			Z	4	2890	B Q18		260
	669			FCTBL	DCW	0015			Z	4	2897			260
	670				DCW	3051			Z	4	2901			260
	671				DCW	7087			Z	4	2905			260
	672				DCW	7127			Z	4	2909			260
	673			CKPRO	DCW	3456			Z	4	2913			260
1	674	15	55		LTORG	*			Z			2914		
					DCW	*000*			Z	3	2916		LIT	260
						• I •			Z	1	2917		LIT	261
						'CTL'			Z	3	2920		LIT	261
						+30			Z	2	2922		LIT	261
						0			Z	1	2923		LIT	261
						131			Z	1	2924		LIT	261
						(Z	1	2925		LIT	261
	675			*										
1	676	15	57	*M A I	N L	INE CONSTANTS	AND WORK AR	REA	S					
	677			*										
	678			*LITER	AL HOLD) AREA								
	679			*		- 4			_					
	680				ORG	SAVE			Z		0.750	3760		
	681			LAREA	EQU	*			Z	_	3759			2/2
	682				DCW	+00000			7	5	3764			262
	683				DCW	=10			Z	10	3774			262
	1684				DCW	*DCW *			Z	5	3779			262
	685				DCW	=1			Z	1	3780			262
	686				DS	53			Z	_	3833			
	1687				DCW	1/1			Z	1	3834			263
	1688				DS	9			Z	_	3843			
	689			GRPMK3		1 1			Z	1	3844			264
	690			HLDLIT	EQU	LAREA+1			Z		3760			
	1691			#										
	1692			*CONST	ANTS A	ND WORK AREAS								
	693			#					_	_				
	694			FACTOR		*0000 *	LABEL CONVERSION F			4				264
	1695			BIGCTR		*00000*	BIG LITERAL LABEL	CNTR		5				264
1	1696	15	77	ORGCTR	DCW	'00332'	ORIGIN COUNTER		Z	5	3858			264

SEQ PG LI	N LABEL O	P OPERANDS		SFX	CT	LOCN	INSTRUCTION TYPE	CARD
1697 15 78	BLANK4 D	CW =4	BL ANKS	Z	4	3862		264
1698 15 79	B2CNTR D	CW =5	WORK AREA	Z	5	3867		265
1699 15 80	HOLD4 D	CW =4	WORK AREA	Z	4	3871		265
1700 15 81	W6AREA D	CW =6	WORK AREA	Z	6	3877		265
1701 15 82	HOLD7 D	CW =7	USED FOR LABEL	2	7	3884		265
1702 15 83	HOLD1 D	CW +0	CONVERSION ONLY	Z	1	3885		265
1703 15 84	SFXHLD D	CW 0	SUFFIX CHARACTER	2	1	3886		265
1704 15 85	INITSW D	CW O	DA SWITCH	Z	1	3887		265
1705 15 86	MARKSW D	C O	DA SWITCH	· Z	1	3888		266
1706 15 87	DCWSW D	C O	DCW SWITCH	Z	1	3889		266
1707 15 88	LITSW2 D	C 0	LITERAL SWITCH	Z	1	3890		266
1708 15 89	DSASW2 D	C 0	DSA SWITCH	Z	1	3891		266
1709 15 90	DCWSW2 D	C O	DCW SWITCH	Z	1	3892		266
1710 15 91	GRPMK8 E			Z		3899		
					_			

SYSTEM GROUP MARK

1711 15 92

1712 15 93

3899 DCW

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DOZERO

1401 AUTOCODER-PASS 4 PROCESS JOB/CTL -VERSION 3

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SEQ PG LIN	LABEL	OP	OPERANDS		SFX	CT	LOCN	INSTRUCTION TYPE	CARD
1713 15 94 1714 15 95	*	JOB	1401 AUTOCODER-PASS 4 MAIN LI	NE OVERLAY -VERSION 3	i				
1715 15 96		SKT 22	TRUCTION STATEMENTS						
1716 15 97	*	33 1.13	TROUTION STATEMENTS						
1717 15 98		ORG	DOPROG		Z			2575	
1718 15 99	INSTR	MCW	EQUADD, IMAGE+67	GET ACTUAL OP	Ž	7	2575	M N11 167	271
1719 16 00	2	CW	LENSW=1	RESET SWITCH	Ž	4	2582) G34	271
1720 16 01		MLC	*01*,IMAGE+7	SET COUNT TO ONE	Ž	7	2586	M G36 107	271
1721 16 02		BW	*+5,EQUADD	Q. REGULAR OP CODE	Z	8	2593	V 005 N11 1	271
1722 16 03		8	AUGMNT		Z	4	2601	B R06	271
1723 16 04	DOCNT	BCE	DONE, INPUT+21+X2,	Q. IS THERE OPERAND	Z	8	2605	B P31 OK1	271
1724 16 05		BCE	XISALF, INPUT+21+X2,	Q. ALPHAMERIC LITERAL	Z	8	2613	B +77 OK1 1	272
1725 16 06		LCA	BLANK2+1, INPUT+20+X2	WIPE OUT PREV OPERAND	Z	7	2621	L H61 OK0	272
1726 16 07		В	COMSCN	SCAN FOR COMMA, BLANK	Z	4	2628	B 860	272
1727 16 08		MLC	XL3,W3AREA		Z	7	2632	M 099 H74	272
1728 16 09		MLC	FREEA, XL3		Z	7	2639	M M98 099	272
1729 16 10		BCE	XISLIT, INPUT+21+X3,+	Q. NUMERIC LITERAL OR	Z	8	2646	B B51 OB1 +	273
1730 16 11		BCE	XISLIT, INPUT+21+X3,-	ADDRESS CONSTANT	Z	8	2654	B B51 OB1 -	273
1731 16 12		В	FR2FIX	CONVERT FREE TO FIXED	Z	4	2662	В 952	273
1732 16 13		BCE	SMLTYP, IMAGE+23+X1,=	Q. AREA DEF LITERAL	Z	8	2666	B +40 1S3 =	273
1733 16 14	CKDONE		+3,IMAGE+7	ADD THREE TO COUNT	Z	7	2674	A G37 107	273
1734 16 15		BW	FREMOD, LENSW	Q. FIVE CHAR INST	Z	8	2681	V P39 G34 1	274
1735 16 16		С	XL1, 010'	Q. B OPERAND JUST	Z	7	2689	C 089 G40	274
1736 16 17		BL	DONE	PROCESSED	Z	5	2696	B P31 T	274
1737 16 18		MLC	'011',XL1		Z	7	2701	M G43 089	274
1738 16 19		BW	*+5,SCANSW	Q. TWO BLABKS AFTER OP	Z	8	2708	V P20 N15 1	274
1739 16 20		В	ELMBLK	ELIMINATE BLANKS	Z	4	2716	B Q83	274
1740 16 21	INTXL1	MCW	XL2, FREEA		Z	7	2720	M 094 M98	275
1741 16 22		В	DOCNT		Z	4	2727	B 005	275
1742 16 23	DONE	BW	CKMOD1, SCANSW	Q. D MODIFIER IN	Z	8	2731	V Q03 N15 1	275
1743 16 24	FREMOD	MLC	INPUT+21+X2, IMAGE+39	OPERAND FIELD	Z	7	2739	M OK1 139	275
1744 16 25		BCE	*+5,IMAGE+39,	Q. D MODIFIER OFFSET	Z	8	2746	B P58 139	275
1745 16 26		В	C1	ONE POSITION	Z	4	2754	B P80	275
1746 16 27		BCE	C1, INPUT+22+X2,	IF BOTH POSITIONS	Z	8	2758	B P80 OK2	276
1747 16 28		MCW	INPUT+22+X2, IMAGE+39	BLANK ASSUME FIRST	Z	7	2766	M OK2 139	276
1748 16 29		A	+1,XL2	BLANK SIGNIFICANT	Z	7	2773	A G44 094	276
1749 16 30	C1	С	INPUT+23+X2,BLANK2	Q. D MODIFIER	Z	7	2780	C 0K3 H60	276
1750 16 31		BE	ISMOD	FOLLOWED BY TWO	Z	5	2787	B Q11 S	276
1751 16 32		MZ	ABIT, IMAGE+5	BLANKS	Z	7	2792	Y 187 105	277
1752 16 33		В	ISMOD		Z	4	2799	B Q11	277
1753 16 34	CKMOD1	BCE	DOIADD, IMAGE+39,	Q. D CHARACTER	Z	8	2803	B Q32 139	277
1754 16 35	ISMOD	Α	+1,IMAGE+7	PROCESS D CHARACTER	Z	7	2811	A G44 107	277
1755 16 36		MLC	IMAGE+7,XL2		Z	7	2818	M 107 094	277
1756 16 37		MLC	IMAGE+39, IMAGE+66+X2		Z	7	2825	M 139 106	278
1757 16 38	DOIADD	MLC	ORGCTR, IMAGE+61	ASSIGN ADDRESS AND	Z	7	2832	M H58 161	278
1758 16 39		A	+1,IMAGE+61	BUMP UP COUNTER	Z	7	2839	A G44 161	278
1759 16 40		A	IMAGE+7, ORGCTR	0005 050005	L	7	2846	A 107 H58	278
1760 16 41		MLC	BLANK, IMAGE+75	CODE RECORD	Z	7	2853	M H59 175	278
1761 16 42		В	NUREC	WEED OUT DIANGE	Z	4	2860	B 534	278
1762 16 43	LOOPBL	Α	+1,XL2	WEED OUT BLANKS	Z	7	2864	A G44 094	279

SEQ PG LIN	LABEL	OP	OPERANDS		SFX	СТ	LOCN	INSTRUCTION TYPE	CARD
1763 16 44		С	XL2, '51'	BETWEEN OPERANDS	Z	7	2871	C 094 G46	279
1764 16 45		BL	ERRBLK		Z	5	2878	B Q95 T	279
1765 16 46	ELMBLK		LOOPBL, INPUT+21+X2,		Z	8	2883	B Q64 OK1	279
1766 16 47		В	INTXL1		Z	4	2891	B P20	279
1767 16 48	ERRBLK		ABIT, IMAGE+5		Ž	7	2895	Y 187 105	279
1768 16 49		В	CKDONE		Z	4	2902	B 074	280
1769 16 50	*	_			-	·			
1770 16 51		SS UNI	QUE MNEMONICS						
1771 16 52	#								
1772 16 53	AUGMNT	MCW	EQUADD-1, IMAGE+39	D MOD TO IMAGE AREA	Z	7	2906	M N10 139	280
1773 16 54		BCE	ISFIVE, EQUADD-1,	Q. BIN TYPE	Z	8	2913	B +32 N10	280
1774 16 55	CKREG	BW	DOCNT, EQUADD-1	Q. TYPICAL UNIQUE MNEM		8	2921	V 005 N10 1	280
1775 16 56		BW	TAPAUG, EQUADD-2	Q. TAPE TYPE	Z	8	2929	V R52 N09 1	280
1776 16 57		MCW	EQUADD-2, IMAGE+70	ERGO RAMAC TYPE	Z	7	2937	M N09 170	281
1777 16 58		MLC	1(1		Z	4	2944	M G47	281
1778 16 59		В	OPDONE		Z	4	2948	B +21	281
1779 16 60	TAPAUG	С	INPUT+21, *0*	PROCESS TAPE TYPE OF	Z	7	2952	C 021 G48	281
1780 16 61		ВН	DOCNT	UNIQUE MNEMONICS	Z	5	2959	B 005 U	281
1781 16 62		BCE	MSCSW, INPUT+22,,	CHECK FOR PROPERLY	Z	8	2964	8 R95 022 ,	281
1782 16 63		C	INPUT+23,BLANK2	CODED A OPERAND	Z	7	2972	C 023 H60	282
1783 16 64		BE	GETPOP		Z	5	2979	B R99 S	282
1784 16 65		MCW	!===!,IMAGE+70		Z	7	2984	M G51 170	282
1785 16 66		В	OPDONE		Z	4	2991	B +21	282
1786 16 665	MSCSW	CW	SCANSW		Z	4	2995) N15	282
1787 16 67	GETPOP		INPUT+21, IMAGE+70		Z	7	2999	D 021 170	282
1788 16 68		MCW	EQUADD-2		Z	4	3006	M N09	282
1789 16 69		MLC	1(1		Z	4	3010	M G47	283
1790 16 70		MLC	'002',XL2		Z	7	3014	M G54 094	283
1791 16 72	OPDONE		ABBIT, IMAGE+1	MARK A OPERAND DONE	Z	7	3021	Y 189 101	283
1792 16 73		В	CKDONE		Z	4	3028	B 074	283
1793 16 74	ISFIVE	SW	LENSW	SET SWITCH FOR FIVE	Z	4	3032	• G34	283
1794 16 75		В	CKREG	CHAR INSTRUCTION	Z	4	3036	B R21	283
1795 16 76	#								
1796 16 77	*PROCE	SS ARE	A DEFINITION LITERAL						
1797 16 78	*								
1798 16 79	SMLTYP	SW	IMAGE+24+X1	MOVE LENGTH TO	Z	4	3040	• 1S4	283
1799 16 80		MLC	IMAGE+26+X1,LAREA+24	LITERAL HOLD AREA	Z	7	3044	M 1S6 G83	284
1800 16 81		MLC	1=1		Z	4	3051	M G55	284
1801 16 82		CW	IMAGE+24+X1	REMOVE LENGTH FROM	Z	4	3055	1 1 5 4	284
1802 16 83		MCW	BLANK4, IMAGE+26+X1	CHAR ADJ PORTION	Z	7	3059	M H62 1S6	284
1803 16 84		MCW	INPUT+84,LAREA+4	OF OPERAND AND SAVE	Z	7	3066	M 084 G63	284
1804 16 85		В	WRTLIT	ALTER NUMBER	Z	4	3073	B A89	284
1805 16 86	*								
1806 16 87	*PROCES	SS ALP	HAMERIC LITERALS						
1807 16 88	#								
1808 16 89	XISALF	В	SCANAT	SCAN FOR * SIGN	Z	4	3077	B \$92	284
1809 16 90		C	XL3, '07'	Q. BIG LITERAL	Z	7	3081	C 099 G57	285
1810 16 91		BL	DOBIG		Z	5	3088	B A57 T	285
1811 16 92	XALF1	Α	XL3,XL1		Z	7	3093	A 099 089	285
1812 16 93		MCW	INPUT+19+X2, IMAGE+15+X1	GENERATE UNIQUE LABEL	Z	7	3100	M 0J9 1/5	285

CEO DO LEN	LADEI	00	ODEDANDS		SFX	CT	LOCN	INSTRUCTION TYPE	CARD
SEQ PG LIN	LABEL	OP	OPERANDS		3F.V	CI	FOCH	INSTRUCTION TIPE	CAND
1813 16 94		BCE	GM1,FREE+18+X2,	AND STRIP ZONING	Z	8	3107	B A43 OJ8	285
1814 16 95		BCE		OFF GROUP MARKS IN	Z	1	3115	В	285
1815 16 96		BCE		LITERAL TO ELIMINATE	Z	1	3116	В	285
1816 16 97		BCE		CONFLICT	Z	1	3117	В	286
1817 16 98	ADD	S	XL3+1,XL1+1	WITH NOISE RECORD	Z	7	3118	S 100 090	286
1818 16 99		MZ	EXOVFL-1, IMAGE+17+X1	ROUTINE	Z	7	3125	Y 190 1/7	286
1819 17 00	SETEX	MCW	EXNUMB-1, IMAGE+22+X1	GIVE LITERAL SECTION	Z	7	3132	M 192 1S2	286
1820 17 01	02.72.	В	PROLIT	CODE	Z	4	3139	B A82	286
1821 17 02	GM1	MZ	BLANK4, IMAGE+14+X1		Z	7	3143	Y H62 1/4	286
1822 17 03	U , (2	MZ			Z	1	3150	Y	286
1823 17 04		MZ			Ž	ī	3151	Y	287
1824 17 05		MZ			Z	ī	3152	Ý	287
1825 17 06		В	ADD		Ž	4	3153	B A18	287
1826 17 07	*				_	-		- /·	
1827 17 08		SS B16	LITERALS						
1828 17 09	*	33 010	ETTERACS						
1829 17 10	DOBIG	MLC	BIGCTR, IMAGE+22+X1	GENERATE BIG LITERAL	Z	7	3157	M H53 1S2	287
1830 17 11	DODIG	MLC	151	LABEL	Z	4	3164	M G58	287
1831 17 12		A	+1,BIGCTR	LADEL	2	7	3168	A G44 H53	287
		MCW	INPUT+84, LAREA+4	SAVE ALTER NUMBER	Z	7	3175	M 084 G63	287
1832 17 13		MCW	INPUTTO4; LANCATA	SAVE ALTER NUMBER	4	•	2112	N 004 003	201
1833 17 14	**	1 1750	ALS IN HOLD AREA AND WRITE OUT	ON LITEDAL TADE					
1834 17 15		FILEK	ALS IN HULL AREA AND WRITE OUT	ON ETTERAL TAPE					
1835 17 16	*	Mic	INDUT: 10: V2 : ADEA: 10: V2	LITERAL TO HOLD AREA	7	7	3182	M OJ9 GG8	288
1836 17 17	PROLIT		INPUT+19+X2, LAREA+19+X3	LITERAL LABEL TO AREA	Z Z	7	3189	M 1S2 G70	288
1837 17 18	WRTLIT		IMAGE+22+X1,LAREA+11	LITERAL LABEL TO AREA		8	3196	V Z90 H90 1	288
1838 17 19		BW	DSAX1,LITSW2	UDITE OUT LITEDAL	Z Z	8	3204	M (U6 G60 W	288
1839 17 20		WT	LITAPE, HLDLIT	WRITE OUT LITERAL	Z	4	3212	N 000	288
1840 17 21		NOP	0			•		B 221 L	
1841 17 22		BER	TPERR	CLEAR HOLD AREA	2	5	3216		288
1842 17 23		MCW	BLANK4, LAREA+4	CLEAR HOLD AREA	Z	7	3221	M H62 G63	289
1843 17 24		MLC	LAREA+74, LAREA+73	CET OU TO ANDICATE AT	Z	7	3228	M H33 H32	289
1844 17 25		CW	LITSW	SET SW TO INDICATE AT	2	4	3235) N46	289
1845 17 26		BW	DSAX1, DSASW2	Q. RECURSIVE DCW	Z	8	3239	V Z90 H91 1	289
1846 17 27		В	CKDONE	LEAST ONE LIT EXISTS	Z	4	3247	B 074	289
1847 17 28	* 00005	~C	COTC LITEDALC						
1848 17 29		SS NOW	ERIC LITERALS						
1849 17 30	*	_	THOUT . 00 - VO. 404	A ADDRESS SOUSTANT	~	7	2251	6 003 640	200
1850 17 31	XISLIT		INPUT+22+X3, '0'	Q. ADDRESS CONSTANT	Z	7	3251	C 0B2 G48	289
1851 17 32		MLC	W3AREA, XL3		Z	7	3258	M H74 099	290
1852 17 33		ВН	DOBIG	0 010 177704	Z	5	3265	B A57 U	290
1853 17 34		C	XL3,*07*	Q. BIG LITERAL	2	7	3270	C 099 G57	290
1854 17 35		BL	DOBIG		Z	5	3277	B A57 T	290
1855 17 36	XLIT1	A	XL1,XL3	PROCESS SMALL NUMERIC	Z	7	3282	A 089 099	290
1856 17 37		MLC	INPUT+19+X2, IMAGE+14+X3	LITERALS	7	7	3289	M 0J9 1A4	290
1857 17 38		MZ	EXOVFL-1, IMAGE+21+X1	GENERATE UNIQUE LABEL	Z	7	3296	Y 190 1S1	291
1858 17 39		MLC	FREEA, XL3	FOR LITERAL	Z	7	3303	M M98 099	291
1859 17 40		MLZS	INPUT+21+X3,IMAGE+18+X1		Z	7	3310	Y 081 1/8	291
1860 17 41		MLC	W3AREA,XL3		Z	7	3317	M H74 099	291
1861 17 42		В	SETEX		Z	4	3324	B A32	291
1862 17 43	#								

SEQ PG LIN	LABEL OP	OPER	RANDS							SFX	СТ	LOCN	IN	STRUCTION	TYPE	CARD
1863 17 44	*GENERATE	LABEL E	ENTRY A	DDRESS	FOR	SYMBOLIC	OPERA	NDS								
1864 17 45	*	, nonv	(T.3							7		2220		C40		201
1865 17 46	PROPNO SB			C . 17						Z	4	3328 3332		C60 C57 117		291 292
1866 17 47	ВС		KT, IMAG							Z		3339		122 H77		292
1867 17 48	MC		SE+22.W	DAKEA			i Tail	TO SUBROUT	THE	2	7	3346		122 ATT W47		292
1868 17 49	В	PROL		CE 170			LIM	10 3086001	INC	2	4 7	3350		H74 170		292
1869 17 50	ML BODYT B		REA, IMA	65+10						Z Z	4	3357		000		292
1870 17 51	BOPXT B	XXXX	•							L	**	3331	D '	000		272
1871 17 52 1872 17 53	* *DETERMIN	E TVDE O	E CONT	00 100												
		NE ITPE U	JF CUNI	KUL UP												
1873 17 54	* CTRLOP MC	'W EOUA	\nn_1 t	MAGE+75	:		CODE	RECORD		Z	7	3361	M I	N10 175		292
1874 17 55 1875 17 56		W EQUA XL3+		MAGETIO	,		CODE	RECORD		Z	4	3368		100		293
1876 17 57	S MN		1DD-1,X	1 2			RDANC	H TO APPRO	DDIATE	Z	7	3372		N10 099		293
1877 17 58	V 141A	XL3	100-117	LJ			ROUT		LUTHIE	Z	4	3379		099		293
1878 17 59	A .	XL3					NOOT	THE		Z	4	3383		099		293
1879 17 60	B	*+1+	L V 2							Z	4	3387		ČII		293
1880 17 61	D D	DART								Z	4	3391		M41		293
1881 17 62	B ·	DCWC								Z	4	3395		Y11		293
1882 17 63	8	ERRH								Z	4	3399		D63		294
1883 17 64	В	EXEN								Z	4	3403		G10		294
1884 17 65	D R	DOSF								Z	4	3407		F92		294
1885 17 66		ERRH								Ž	4	3411		D63		294
1886 17 67	8	ORGS								Z	4	3415		D74		294
1887 17 68	В	DSST								Ž	4	3419		F00		294
1888 17 69	В	INSP								Ž	4	3423		D38		294
1889 17 70	МC			MAGE+21						Ž	7	3427		080 121		295
1890 17 71	В	NURE			•					Ž	4	3434		534		295
1891 17 72	INSPC MC			MAGE+67	,		PROCE	SS CC. SS		Ž	7	3438		NO9 167		295
1892 17 73	MC		NK2,IMA				TYPE			Ž	7	3445		H60 175		295
1893 17 74	ML		, IMAGE					RUCTIONS		Ž	7	3452		G36 107		295
1894 17 75	В	FREM	-	•						Z	4	3459		P39		295
1895 17 76	ERRHLT H	0,04					SYSTE	M ERROR HA	LT	Z	7	3463		000 402		296
1896 17 77	В	ERRH					SHOU	LD NEVER O	CCUR	Z	4	3470	B 1	D63		296
1897 17 78	*															
1898 17 79	*PROCESS	LITERAL	ORIGIN	AND OR	IGIN	N CARDS										
1899 17 80	*															
1900 17 81	ORGSTM B	COMS	SCN				SCAN	FOR BLANK		Z	4	3474	8	860		296
1901 17 82	В	FNLO)P				CHECK	LAST OPER	AND	Z	4	3478	B 1	W05		296
1902 17 83	В	FR2F	= I X				FREE	TO FIXED F	ORM	Z	4	3482	8	952		296
1903 17 84	ВС	CE SUBO	ORG, IMA	GE+24,X	(Q. AD	JUSTMENT +	XOD	Z	8	3486	В	E63 124 X		296
1904 17 85	вс	CE ORGP	PRO, IMA	GE+17,*	•		Q. AS	TERISK OPE	RAND	Z	8	3494	B 1	E89 117 *		296
1905 17 86	ZS	+1,0	DRGCTR				SET C	OUNTER TO	-1	Z	7	3502		G44 H58		297
1906 17 87	ВС		ADJ, IMA					ANK OPERAN		Z	8	3509		E33 117		297
1907 17 88	BW	Z ORGC	CVT, IMA	GE+17,2)			TUAL ORIGI		Z	8	3517		E78 117 2		297
1908 17 89	S	XL2+						SS A OPERA		2	4	3525		095		297
1909 17 90	В	PROP						OLIC ORIGI		Z	4	3529		C28		297
1910 17 91	ORGADJ A		SE+26,0					HAR ADJUST		Z	7	3533		126 H58		297
1911 17 92	TYPORG ML		CTR, IMA					ORIGIN VAL	UE	Z	7	3540		H58 161		298
1912 17 93	вс	CE NURE	EC, INPU	T+16,0			Q. OR	IGIN CARD		Z	8	3547	8	534 016 O		298

SEQ PG LIN	LABEL	OP	OPERANDS		SFX	СТ	LOCN	INSTRUCTION TY	PE CARD
1012 17 04		D	DUT	PUT LTORG RECORD	Z	4	3555	B 610	298
1913 17 94 1914 17 95		B B	PUT CALL	GO TO LITERAL ROUTINE	Z	4	3559	B U31	298
1914 17 95	SUBORG		+1,0RGCTR	SET COUNTER TO -1	Z	7	3563	- G44 H58	298
1916 17 97	300000	B	PROPND	PROCESS A OPERAND	Z	4	3570	B C28	298
1917 17 98		В	TYPORG	PROCESS A OFERAND	Z	4	3574	B E40	298
1918 17 99	ORGCVT		CVTFLA	RESET COUNTER TO ACTL	Z	4	3578	B W28	299
1919 18 00	ONGCVI	A	W5AREA,ORGCTR	ADDRESS LESS ONE	Ž		3582	A H76 H58	299
1920 18 01	ORGPRO		ABBIT, IMAGE+1	MARK A OPERAND	Ž	7		Y 189 101	299
1921 18 02	UNGFRU	В	ORGADJ	PROCESSED	Z	4	3596	B E33	299
1922 18 03	*	U	CNGADS	r Nocesseb	-	-	3370	0 233	2,,
1923 18 04		cc nc	STATEMENTS						
1924 18 05	**********	33 03	STATEMENTS						
1925 18 06	DSSTMT	R	COMSCN	SCAN FOR COMMA/BLANK	Z	4	3600	B 860	299
1926 18 07	D331111	В	FNLOP	CHECK LAST OPERAND	Z	4	3604	B W05	299
1927 18 08		В	FR2FIX	CONVERT TO FIXED FORM	Z	4	3608	B 952	299
1928 18 09		BWZ	CKEQU, INPUT+21,2	Q. ACTUAL OPERAND	Z	8	3612	V F55 021 2	300
1929 18 10		BCE	CK4ADJ, IMAGE+17,*	Q. ASTERISK OPERAND	Z	8	3620	B F44 117 *	300
1930 18 11		BCE	NUREC, IMAGE+17, (Q. I/O OPERAND	Ž	8	3628	B 534 117 (300
1931 18 12		В	PROPND	GENERATE LABEL ADDRESS		4	3636	B C28	300
1932 18 13		В	NUREC	OUNCERNIE CADEL ADDRESS	7	4	3640	B 534	300
1933 18 14	CK4ADJ		IMAGE+26, IMAGE+61	PICKUP CHARACTER	Ž	7	3644	+ 126 161	300
1934 18 15	CRTADO	В	DSETAD	ADJUSTMENT	Z	4	3651	B -82	301
1935 18 16	CKEQU	ZA	IMAGE+21,W5AREA	CONVERT ACTUAL OPND OF		7	3655	+ 121 H76	301
1936 18 17	CKEGO	В	CVRT5	EQU AND DS	Ž	4	3662	B V78	301
1937 18 18		A	IMAGE+26, W5AREA	ADD CHARACTER ADJ	Z	7	3666	A 126 H76	301
1938 18 19		BCE	DCWACT, IMAGE+75,P	Q. EQU CODE	Z	8	3673	B -50 175 P	301
1939 18 20		A	W5AREA, ORGCTR	PROCESS DS	Ž	7	3681	A H76 H58	301
1940 18 21		B	BMPCTR	, Kaacaa aa	Ž	4	3688	B -75	302
1941 18 22	*	b	DITICIN		4-	•	3000		302
1942 18 23		SS SHE	FIX STATEMENTS	,					
1943 18 24	*	33 301	TA STATEMENTS	,					
1944 18 25	DOSFX	MLC	INPUT+21, IMAGE+17	SABE SUFFIX	Z	7	3692	M 021 117	302
1945 18 26	0031 X	MCW	INPUT+21,SFXHLD	CHARACTER	Ž	7	3699	M 021 H86	302
1946 18 27		В	NUREC	OHANAO FER	Ž	4	3706	B 534	302
1947 18 28	*	U	Hones		_	•	5.00		
1948 18 29		SS EXE	CUTE, END STATEMENTS						
1949 18 30	*		out by bitto of the bitto						
1950 18 31	EXEND	В	COMSCN	SCAN FOR COMMA/BLANK	Z	4	3710	B 860	302
1951 18 32	CACAD	В	FNLOP	CHECK LAST OPERAND	Ž	4	3714	B W05	302
1952 18 33		В	FR2FIX	CONVERT TO FIXED FORM	Z	4	3718	B 952	302
1953 18 34		BCE	NUREC, INPUT+16, X		Z	8	3722	B 534 016 X	303
1954 18 35		В	CALL	MERGE LITERALS	Z	4	3730	8 U31	303
1955 18 36		LTORG			Ž	-	- · - •	3734	
1719	LENSW	DCW	=01		Z	1	3734		REA 303
,		**	*01*		Z	2	3736		LT 303
			+3		Z	1	3737	L	
			10101		Z	3	3740		IT 303
			'011'		Z Z	3	3743	L	
			+1		Z	1	3744	L	[T 304
			1511		Z	2	3746	L.I	IT 304

			1401 AUTOCODER-PAS	SS 4 MAIN LI	INE OVERLAY	-VERSION	3		3743L		PAGE	46
SEQ PG LIN	LABEL	OP	OPERANDS				SFX	СТ	LOCN	INSTRUCTION	TYPE	CARD
			• (•				Z	1	3747	•	LIT	304
			•0•				Z	1	3748		LIT	304
			1===1				Z	3	3751		LIT	304
			002				Z	3	3754		LIT	304
			1=1				Z	1	3755		LIT	304
			1071				Z	2	3757		LIT	305
			151				Z	1	3758		LIT	305
1956 18 37	GRPMK2	DCW	1 1		SYSTEM GROU	JP MARK	Z	1	3759			305
1957 18 38		EQU	*+1				Z	_	3760			. •
1958 18 39		EX	DOZERO				Z			B 000		306

SEQ	PG	LIN	LABEL	OP	OPERANDS		SFX	CT	LOCN	INSTRUCTION TYPE	CARD
1959	18	40		JOB	1401 AUTOCODER-PASS 4 PROCESS	DA -VERSION	3				
1960	18	41	*								
1961	18	42	*PROCES	SS DA	STATEMENTS						
1962			*								
1963				ORG	DOPROG		Z			2575	
1964			DASTMT		SYSTAP	RE-POSITION SYSTEM	Z	5	2575	U (U1 B	309
1965				BSP	SYSTAP	TAPE	Z	5	2580	U (U1 B	309
1966				SW	NUMSW, DACSW	Q. FIRST CHAR -X-	Z	7	2585	, F31 F55	309
1967				SW	FRMKSW, DGMKSW	SET SWITICHES	Z	7	2592	, F58 F57	309
1968				BCE	DAERR, INPUT+21, X	<u> </u>	Z	8	2599	B C14 021 X	309
1969			EXSCAN		NDXSCN, INPUT+22+X2, X	SCAN FOR -X- IN -BXL-	Z	8	2607	B 034 0K2 X	310
1970				BCE	DAERR, XL2, 4		Z	8	2615	B C14 094 4	310
1971				A	+1,XL2		Z	7	2623	A F18 094	310
1972				В	EXSCAN		Z	4	2630	B 007	310
1973			NDXSCN	A	INPUT+21+X2,BLKCTR	GET BLOCKING FACTOR	Z	7	2634	A OK1 F17	310
1974				A	+2,XL2		Z	7	2641	A F19 094	311
1975				В	COMSCN		Z	4	2648	B 860	311
1976				ZA	INPUT+19+X2, RECNTR=5	GET RECORD LENGTH	Z	7	2652	+ 0J9 F24	311
1977			FINHED		DAINDX, INPUT+21+X2, X	Q. INDEXING	Z	8	2659	B C73 OK1 X	311
1978				BCE	DAGMRK, INPUT+21+X2, G	Q. GROUP MARK	Z	8	2667	B C91 OK1 G	311
1979				BCE	DAFMRK, INPUT+21+X2, ‡	Q. RECORD MARK	Z	8	2675	B D06 0K1 #	312
1980				BCE	DACLR, INPUT+21+X2, C	Q. CLEAR OPTION	Z	8	2683	B C65 OK1 C	312
1981				BCE	CMPSZ, INPUT+20+X2,	Q. NO OTHER OPTIONS	2	8	2691	B P06 0K0	312
1982				MZ	ABIT, IMAGE+5	MARK BAD STATEMENT	Z	7	2699	Y 187 105	312
1983			CMPSZ	S	WSAREA	COMPUTE C135 OF ADEA	Z	4	2706	S H76	312
1984			04050	MCW	BLKCTR, B2CNTR	COMPUTE SIZE OF AREA	Z	7	2710	M F17 H67	313
1985			DAREP	S	+1,82CNTR	AND STORE IN B2CNTR	Z	7	2717	S F18 H67	313
1986				ВМ	SFANS, B2CNTR		Z	8	2724	V P43 H67 K	313
1987				A	RECNTR, W5AREA		Z	7	2732	A F24 H76	313
1988			CF 43: C	В	DAREP		Z	4	2739	B P17	313 314
1989			SFANS	MCW	W5AREA, B2CNTR		Z	7	2743 2750	M H76 H67 M F25 117	314
1990				MLC	***, IMAGE+17	DETERMINE PRETIED			2757	B P73 006	314
1991				BCE	DASTR, INPUT+6,	DETERMINE WHETHER	2	8 8	2765	V P98 006 2	314
1992			CACTO	BWZ	DANUM, INPUT+6,2	LOCATION OF DA IS	Z	7	2773	M H58 F30	314
1993			DASTR	MLC	ORGCTR,DALOC=5	ACTUAL OR ASTERISK		7	2780	A F18 F30	315
1994				A	+1,DALOC W5AREA,ORGCTR	PROCESS DA* BUMP ORIGIN COUNTER	Z	7	2787	A H76 H58	315
1995				A		BOMP URIGIN COUNTER	Z	4	2794	B Q20	315
1996			DANIEM	B	ENDDA INPUT+10,IMAGE+21	PROCESS ACTUAL DA	Z	7	2798	M 010 121	315
1997			DANUM	MLC		SET ACTUAL DA SWITCH	Z	4	2805) F31	315
1998				CW	NUMSW=1 CVTFLA	SET ACTUAL DA SWITCH	Z	4	2809	B W28	315
1999				B MLC	W5AREA, DALOC		Z	7	2813	M H76 F30	316
2000 2001			ENDDA	MLC	DALOC, IMAGE+66	GENERATE HIGH ORDER	Z	7	2820	M F30 166	316
2001			ENDUA	MLC	DALOC	LOCATION OF DA	Z	4	2827	M F30	316
2002				A	RECNTR, IMAGE+66	EGGATION OF DA	1	7	2831	A F24 166	316
2003				S	+1,IMAGE+66		Z	7	2838	S F18 166	316
2004				S	+1,DALOC		Z	7	2845	S F18 F30	316
2006				CW	HEDSW=1		Z	4	2852) F32	317
2007				BW	DALOOP, DACSW	Q. CLEAR OPTION	Z	8	2856	V +37 F55 1	317
2008				MCW	IMAGE+80, DAHLD	SAVE IMAGE	Z	7	2864	M 180 G54	317
2000	T O	0,		, : • N	arenou rooyuneeu	VATE BURNE	_	•		·· ••• •••	~ • •

SEQ PG L	IN	LABEL	OP	OPERANDS		SFX	СТ	LOCN	INSTRUCTION	TYPE	CARD
2009 18 9	0		CHAIN	10						MACRO	
2010			MCW			Z	1	2871	M	GEN	317
2011			MCW			Z	1	2872	M	GEN	317
2012			MCW			Z	1	2873	M	GEN	317
2013			MCW			Z	1	2874	M	GEN	317
2014			MCW			Z	1	2875	M	GEN	318
2015			MCW			2	1	2876	M	GEN	318
2016			MCW			Z	1	2877	M	GEN	318
2017			MCW			Z	1	2878	M	GEN	318
2018			MCW			Z	1	2879	M	GEN	318
2019			MCW	444 18405.75	CODE DC STATEMENT AND	7	1	2880	M 522 175	GEN	318
2020 18 9			MCW	'A', IMAGE+75	CODE DC STATEMENT AND	2	7	2881	M F33 175		318 319
2021 18 9			MCW	BLANK4, IMAGE+80	TO CLEAR ENTIRE DA	Z	7 7	2888 28 9 5	M H62 180 M H62 155		319
2022 18 9			MCW	BLANK4, IMAGE+55	AREA NOTE - EACH DC IS 19	Z Z	7	2902	M H62 127		319
2023 18 9 2024 18 9			MCW	BLANK4, IMAGE+27 INITSW	CHARACTERS	Z	4	2902	, H87		319
2024 18 9			SW MCW	BLANK4, IMAGE+11	OPTIMIZING THE	Z	7	2913	M H62 111		319
2025 18 9			MCW	'DC ',IMAGE+16	CONDENSED CARD	Ž	7	2920	M F36 116		319
2027 18 9			MCW	1191, IMAGE+7	CONDENSED CAND	Ž	7	2927	M F38 107		320
2028 18 9			MCW	DALOC, IMAGE+61		Z	7	2934	M F30 161		320
2029 19 0		CKNDQ	C	B2CNTR,+0020		Ž	7	2941	C H67 F42		320
2030 19 0		CIVILD	ВН	DOLST		Ž	5	2948	B R82 U		320
2031 19 0			A	+19,IMAGE+61		Z	7	2953	A F44 161		320
2032 19 0			MZ	ABBIT, IMAGE+1		Z	7	2960	Y 189 101		321
2033 19 0			В	PUT		Z	4	2967	B 610		321
2034 19 0			S	+19,82CNTR		Z	7	2971	S F44 H67		321
2035 19 0			В	CKNDQ		Z	4	2978	B R41		321
2036 19 0		DOLST	C	B2CNTR,+0000		Z	7	2982	C H67 F48		321
2037 19 0	8		BE	RTMGE		Z	5	2989	B +20 S		321
2038 19 0	9		MN	B2CNTR, IMAGE+7		Z	7	2994	D H67 107		322
2039 19 1	0		MN			Z	1	3001	D		322
2040 19 1			A	B2CNTR, IMAGE+61		Z	7	3002	A H67 161		322
2041 19 1			MZ	ABBIT, IMAGE+1		Z	7	3009	Y 189 101		322
2042 19 1			В	PUT		Z	4	3016	B 610		322
2043 19 1		RTMGE	MCW	DAHLD, IMAGE+80	RESTORE IMAGE AREA	Z	7	3020	M G54 180	****	322
2044 19 1	5		CHAIN	10		-		2027		MACRO	222
2045			MCW			Z	1	3027	M	GEN	322
2046			MCW			2	1	3028	M	GEN	323
2047			MCW			Z	1	3029 3030	M	GEN GEN	323 323
2048			MCW			2	1	3031	M M	GEN	323
2049			MCW			2	1	3032	M	GEN	323
2050 2051			MCW MCW			Z Z	1	3033	M	GEN	323
2052			MCW			Z	i	3034	M	GEN	323
2053			MCW			2	1	3035	M	GEN	324
2054			MCW			Z	i	3036	M	GEN	324
2055 19 1	6	DALOOP	SW	INITSW		Ž	4	3037	, н87	J-11	324
2056 19 1		JACOU!	ZA	+1,B2CNTR		Ž	7	3041	+ F18 H67		324
2057 19 1		DAPUT	C	B2CNTR, BLKCTR	GENERATE -B- NUMBER	Ž	7	3048	C H67 F17		324
2058 19 1			ВН	PUTIT		Z	5	3055	B B70 U		324

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SEQ	PG	LIN	LABEL	OP	OPERANDS		SFX	CT	LOCN	INSTRUCTION	TYPE CARD
2059	19	20	DAGET	CW	INITSW		Ż	4	3060) H87	324
2060				BW	DAPUT2, HEDSW	Q. DA HEADER	Z	8	3064	V +90 F32 1	325
2061				MCW	IMAGE+66, GMKADD=5	SAVE LAST ADDRESS	Z	7	3072	M 166 F53	325
2062				A	+1,GMKADD	AS POTENTIAL GROUP	Z	7	3079	A F18 F53	325
2063				SW	HEDSW	MARK ADDRESS	Z	4	3086	• F32	325
2064			DAPUT2	В	PUT		Z	4	3090	B 610	325
2065				BW	CKFNLG, MARKSW	Q. REC MARK LOOP	Z	8	3094	V E02 H88 1	325
2066			GET1	8	GET		2	4	3102	B 538	326
2067			02.1	BCE	GET1, INPUT+6,*	e e e e e e e e e e e e e e e e e e e	Ž	8	3106	B A02 006 *	326
2068				C	INPUT+19, BLANK4	Q. FIELD CARD	Z	7	3114	C 019 H62	326
2069				BU	CKFMRK		Ž	5	3121	B D21 /	326
2070				MCW	INPUT+84, IMAGE+80	PICKUP ALTER NUMBER	Z	7	3126	M 084 180	326
2071				BCE	*+5, INPUT+6,	Q. LABEL	Z	8	3133	B A45 006	326
2072				В	PROLBL	PROCESS LABEL	Z	4	3141	B V38	327
2073				MLC	+0,IMAGE+75	CODE RECORD	Ž	7	3145	M F54 175	327
2074				S	XL2+1	FIND LIMITS OF FIELD	Ž	4	3152	S 095	327
2075				В	COMSCN		Ž	4	3156	B 860	327
2076				ZA	INPUT+19+X2,IMAGE+66		Ž	7	3160	+ 0J9 166	327
2077				Č	RECNTR, IMAGE+66	Q. DOES FIELD EXCEED	Ž	7	3167	C F24 166	327
2078				Вн	TEERR	LIMIT OF DA	Ž	5	3174	B C39 U	327
2079				BCE	SUBFLD, INPUT+20+X2,	Q. SUBFIELD	Ž	8	3179	B B52 OKO	328
2080				В	COMSCN	44 505, 1225	Ž	4	3187	B 860	328
2081				8	FNLOP		7	4	3191	B W05	328
2082				ZA	INPUT+19+X2, IMAGE+61		7	7	3195	+ 0J9 161	328
2083				C	RECNTR, IMAGE+61	Q. DOES FIELD EXCEED	Ž	7	3202	C F24 161	328
2084				ВН	TFERR	LIMIT OF DA	Z	5	3209	B C39 U	328
2085				C	IMAGE+61, IMAGE+66	Q. FIELDS SPECIFIED I		7	3214	C 161 166	329
2086				ВН	FLDERR	IN CORRECT ORDER	Z	5	3221	B C54 U	329
2087			ADDREC		DALOC, IMAGE+61	CREATE ADDRESS FOR	Ž	7	3226	A F30 161	329
2088			ADDITEC	Â	DALOC, IMAGE+66	FIELDS	Z	7	3233	A F30 166	329
2089				ВМ	DAGET, IMAGE+75	Q. SUB FIELD	Ž	8	3240	V +60 175 K	329
2090				В	DALOOP	4. 300 11220	Z	4	3248	B +37	329
2091			SUBFLD		BBIT, IMAGE+75	PROCESS SUBFIELDS	Z	7	3252	Y 188 175	330
2092			3001 60	MLC	IMAGE+66, IMAGE+61	**************************************	Ž	7	3259	M 166 161	330
2092				В	ADDREC		Z	4	3266	B B26	330
2094			PUTIT	8	PUT		7	4	3270	8 610	330
2095			FUILI	BW	*+8, MARKSW	Q. RECORD MARK LOOP	Ž	8	3274	V B89 H88 1	330
2095				MZ	ABIT, IMAGE+75	CODE REPEATS	7	7	3282	Y 187 175	330
2097				A	+1,B2CNTR	CODE NEI ERIS	7	7	3289	A F18 H67	331
2098				Α Λ	RECNTR, IMAGE+61	COMPUTE FIELD LIMITS	7	7	3296	A F24 161	331
2099				A A	RECNTR, IMAGE+66	Com one interesting	7	7	3303	A F24 166	331
2100				В	DAPUT		7	4	3310	B +48	331
			DAERR	MLZS	ABBIT, IMAGE+4	IMPROPERLY CODED DA	2	7	3314	Y 189 104	331
2101 2102			DWFVV	ZA	+1,BLKCTR	HEADER ROUTINE	7	7	3321	+ F18 F17	331
2102				ZA	+1,RECNTR	HENDER ROOFINE	7	7	3328	+ F18 F24	332
2103				В	CMPSZ		7	4	3335	B P06	332
2104			TFERR	SBR	*+11	MARK ERROR	7	4	3339	H C53	332
			FEENN	MZ	ABIT, IMAGE+5	HANN CHRON	7	7	3343	Y 187 105	332
2106				B	XXXX		7	4	3350	B 000	332
2107 2108			ELDEDD	_	BBIT, IMAGE+5	IMPROPERLY CODED DA	Z	7	3354		332
2100	17	07	FLDERR	m Z	BOTITIONOFIA	AMERICANET CODED DA	-	•	J J J T	, 100 100	ع د ز

SEQ PG LIN	LABEL	OP	OPERANDS		SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2109 19 70		В	DAPUT2	FIELD ROUTINE	Z	4	3361	B +90		332
2110 19 71	DACLR	CW	DACSW=1	PROCESS CLEAR OPTION	Z	4	3365) F55		333
2111 19 72		8	DATWO	ON HEADER RECORD	Z	4	3369	B C95		333
2112 19 73	DAINDX	MLNS	INPUT+22+X2, IMAGE+27	PROCESS INDEXING ON	Z	7	3373	D OK2 127		333
2113 19 74		Α	+3,XL2	HEADER RECORD	Z	7	3380	A F56 094		333
2114 19 75		В	FINHED		Z	4	3387	B 059		333
2115 19 76	DAGMRK	CW	DGMKSW=1	INITIALIZE TO SHOW	Z	4	3391) F57		333
2116 19 77	DATWO	A	+2,XL2	THERE IS GROUP	Z	7	3395	A F19 094		333
2117 19 78		В	FINHED	MARK AFTER AREA	Z	4	3402	B 059		334
2118 19 79	DAFMRK		+1,RECNTR	INITIALIZE TO SHOW	Z	7	3406	A F18 F24		334
2119 19 80		CM	FRMKSW=1	PRESENCE OF RECORD	Z	4	3413) F58		334
2120 19 81		В	DATWO	MARKS BETWEEN RECORDS		4	3417	B C95		334
2121 19 82	CKFMRK		MARKSW	0 0700-0 11010	Z	4	3421	• H88		334
2122 19 83		BW	CKFNLG, FRMKSW	Q. RECORD MARKS	Z	8	3425	V E02 F58 1		334
2123 19 84		MLC	11+11, IMAGE+25	GENERATE -B- NUMBER	Z	7	3433	M F61 125		334
2124 19 85		MLC	DC *1, IMAGE+17	OF RECORD MARKS	Z	7	3440	M F65 117		335
2125 19 86		MLC	.1 IMACC.75		2	1	3447	M 510 176		335
2126 19 87		MLC	+1,IMAGE+75		2	7 7	3448 3455	M F18 175 M F67 107		335
2127 19 88		MLC MLC	'01', IMAGE+7		Z Z	7	3462	M F30 161		335 335
2128 19 89 2129 19 90		_	DALOC, IMAGE+61 RECNTR, IMAGE+61		Z	7	3469	A F24 161		335
2130 19 91		A BW	DALOOP, NUMSW		Z	8	3476	V +37 F31 1		336
2131 19 92		MCW	BLANK, IMAGE+17		Z	7	3484	M H59 117	•	336
2132 19 93		MZ	ABBIT, IMAGE+3		Z	7	3491	Y 189 103		336
2133 19 94		В	DALGOP		Z	4	3498	B +37		336
2134 19 95	CKFNLG		CALLOP, DGMKSW	Q. SET GROUP MARK	Ž	8	3502	V E93 F57 1		336
2135 19 96	0	MLC	'DCW', IMAGE+16	GENERATE RECORD TO SET		7	3510	M F70 116		337
2136 19 97		MLC	11, IMAGE+75	GROUP MARK AT END OF	Z	7	3517	M F71 175		337
2137 19 98		MLC	'01', IMAGE+7	DA STATEMENT	Z	7	3524	M F67 107		337
2138 19 99		MCW	GMKADD, IMAGE+61		Z	7	3531	M F53 161		337
2139 20 00		MLC	** **, IMAGE+25		Z	7	3538	M F74 125		337
2140 20 01		BW	GMKAST, NUMSW		Z	8	3545	V E75 F31 1		338
2141 20 02		MCW	BLANK, IMAGE+17		Z	7	3553	M H59 117		338
2142 20 03		MZ	ABBIT, IMAGE+3		Z	7	3560	Y 189 103		338
2143 20 04	PUTGMK	В	PUT	PUT GROUP MARK RECORD	2	4	3567	8 610		338
2144 20 05		В	CALLOP	GO BACK TO MAIN LINE	Z	4	3571	B E93		338
2145 20 06	GMKAST	Α	+1,ORGCTR		Z	7	3575	A F18 H58		338
2146 20 07		MCW	***, IMAGE+17		Z	7	3582	M F25 117		339
2147 20 08		В	PUTGMK		Z	4	3589	B E67		339
2148 20 09	CALLOP	BSP	INTAP		Z	5	3593	U (U4 B		339
2149 20 10		В	GET		Z	4	3598	B 538		339
2150 20 11		CW	MARKSW, GRPMK6		Z	7	3602) H88 G55		339
2151 20 12	A1 A ===	В	FINDA		Z	4	3609	B M62		339
2152 20 13	BLKCTR		+00000		Z	5	3617	2/10		339
2153 20 14		LTORG			Z	•	2/10	3618		24.5
		DCW	+1		Z	1	3618		LIT	340
107/	DECUTO		+2		7	1	3619		LIT AREA	340 340
1976	RECNTR		=05 !*!		Z Z	5 1	3624 3625		LIT	340 340
1993	DALGO		=05		Z	5	3630		AREA	340 340
1223	DALCC		- 05		~	,	2020		MILM	J+0

OPERANDS

=01

=01

1 A 1 DC '

SEQ PG LIN LABEL OP

1998 NUMSW

2006 HEDSW

3	7	4	4	L	
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3		3744L		PAGE	51
SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
Z	1	3631		AREA	340
Z	1	3632		AREA	340
Z	1	3633		LIT	341
Z	3	3636		LIT	341
Z	2	3638		LIT	341
Z	4	3642		LIT	341
Z	2	3644		LIT	341
Z	4	3648		LIT	341
Z	5	3653		AREA	341
Z	1	3654		LIT	342
Z	1	3655		AREA	342
Z	1	3656		LIT	342
Z	1	3657		AREA	342
Z	1	3658		AREA	342
Z	3	3661		LIT	342
Z	4	3665		LIT	342
2	2	3667		LIT	343
7	2	2470		1 T T	242

	1191		Z	2	3638		LIT	341
	+0020		Z	4	3642		LIT	341
	+19		Z	2	3644		LIT	341
	+0000		Z	4	3648		LIT	341
2061 GMKADD	=05		Z	5	3653		AREA	341
2002 0	+0		Z	1	3654		LIT	342
2110 DACSW	=01		Z	1	3655		AREA	342
	+3		Z	1	3656		LIT	342
2115 DGMKSW	=01		Z	ī	3657		AREA	342
2119 FRMKSW	=01		Z	1	3658		AREA	342
	11411		7	3	3661		LIT	342
	*DC **		Ž	4	3665		LIT	342
	01		7	2	3667		LIT	343
	DCW		7	3	3670		LIT	343
	1		,	1	3671		LIT	343
	11 11		7	3	3674		LIT	343
2154 20 15 DA	1X80		7		3675	3754		343
2155 20 16 DAHLD	80		7		3754	3.2.	SBFLD	3.3
2156 20 17 GRPMK6 DCW	1 1	SYSTEM GROUP MARK	7	1	3755		351 25	344
2157 20 18 EX	DOZERO	STSTEM GROOT MARK	7	•	3,73	В 000		345
2197 20 16	DUZENO					D 000		JTJ

SEQ	PG	LIN	LABEL	OP	OPERANDS		SFX	CT	LOCN	INSTRUCTION	TYPE	CARD
2158	20	19		JOB	1401 AUTOCODER-PASS 4 PROCESS	LITERALS -VERSION	3					
2159				ORG	DOPROG	tricines venotor.	Z			2575		
2160			CVLLIT		LITAPE		Z	5	2575	U (U6 M		348
2161			O,CCI,	WTW	LITAPE, IMAGE+1	SAVE IMAGE AREA	Z	8	2580	L (U6 101 W		348
2162				NOP	0		Ž	4	2588	N 000		348
2163				BER	TPERR		Ž	5	2592	B 221 L		348
2164				BEF	*+1	RESET EOF TRIGGER	Ž	5	2597	B 002 K		348
2165				WTW	LITAPE, IMAGE+1	NOTE - MUST WRITE OUT	Z	8	2602	L (U6 101 W		348
2166				NOP	0	IMAGE AREA TWICE	ž	4	2610	N 000		348
2167				BER	TPERR	BECAUSE EOF TREATED	Ž	5		B 221 L		349
2168			#	O (AS NOISE RECORD	_					J
2169				RWD	LITAPE		Z	5	2619	U (U6 R		349
2170				BSP	SYSTAP	POSITION SYSTEM TAPE	Ž	5	2624	U (U1 B		349
2171				BSP	SYSTAP	TO BRING BACK	Ž	5	2629	U (U1 B		349
2172				BSP	SYSTAP	MAIN LINE	Ž	5	2634	U (U1 B		349
2173				CW	GRPMK7		7	4	2639) Q27		349
2174				CS	INPUT+80	BLANK INPUT AND FIXED	Ž	4	2643	/ 080		349
2175				SW	INPUT+16,LITSW2	FORM AREA	Ž	7	2647	, 016 H90		350
2176				MRCM	INPUT+1, IMAGE+1		Ž	7	2654	P 001 101		350
2177				MLC	BLANK4, IMAGE+80		Ž	7	2661	M H62 180		350
2178				S	XL2+2		Ž	4	2668	S 096		350
2179				S	71 66 7 66		Z	i	2672	S		350
2180				MLC	*DCW*,IMAGE+16		Ž	7	2673	M Q15 116		350
2181			LITGB	MCW	+INPUT+13,N2+6		Ž	7	2680	M Q18 446		351
2182				RT	LITAPE, INPUT+1	READ IN LITERAL	Z	8	2687	M (U6 001 R		351
2183				В	NOISE	CHECK FOR NOISE	Z	4	2695	B 425		351
2184				BER	TPERR		Z	5	2699	B 221 L		351
2185				BEF	RTNLIT	Q. ANY MORE LITERALS	Z	5	2704	B P39 K		351
2186				MCW	INPUT+4, IMAGE+70	CODE MOTHER RECD NUMBE		7	2709	M 004 170		351
2187				MLC	1/1, IMAGE+75	CODE RECORD	2	7	2716	M Q19 175		352
2188				В	PROLBL	PROCESS LABEL	Z	4	2723	B V38		352
2189				В	DCWCD	PROCESS STATEMENT	Z	4	2727	8 Y11		352
2190			LITRTN	В	PUT	PUT RECORD	Z	4	2731	B 610		352
2191				В	LITGB		Z	4	2735	B 08 0		352
2192			RTNLIT	MCW	+IMAGE+13,N2+6		Z	7	2739	M Q22 446		352
2193				RTW	LITAPE, IMAGE+1	REGENERATE IMAGE AREA	Z	8	2746	L (U6 101 R		352
2194				В	NOISE	CHECK FOR NOISE	Z	4	2754	B 425		353
2195	20	56		BER	TPERR		Z	5	2758	B 221 L		353
2196				RWD	LITAPE		Ž	5	2763	U (U6 R		353
2197				SW	LITSW	RESET LITERAL SWITCH	Z	4	2768	• N46		353
2198	20	59		CW	LITSW2		Z	4	2772) H90		353
2199				A	+10,EXNUMB	SECTION TO GUARANTEE	Z	7	2776	A Q24 193		353
2200				BCE	*+5,EXNUMB-1,0	UNIQUENESS OF	2	8	2783	B P95 192 0		353
2201				В	RECALL	LITERAL LABELS UP TO	Z	4	2791	B U68		354
2202				A	+96,EXOVFL	80 LTORG OR EX CARDS	Z	7	2795	A Q26 191		354
2203				A	+96,EXOVFL		Z	7	2802	A Q26 191		354
2204	20	65		В	RECALL		Z	4	2809	B U68		354
2205	20	66		LTORG			Z			2813		
				DCW	'DCW'		Z		2815		LIT	354
	2	2181			+INPUT+13		Z	3	2818	013	ADCON	354

SEQ PG LIN U	LABEL OP	OPERANDS		SFX	ĊT	LOCN	INSTRUCTION	TYPE	CARD
		1/1		Z	1	2819		LIT	354
2192		+IMAGE+13		Z	3	2822	113	ADCON	355
		+10		Z	2	2824		LIT	355
		+96		Z	2	2826		LIT	355
2206 20 67 (GRPMK7 DCW	• •	SYSTEM GROUP MARK	Z	1	2827			355
2207 20 68	EX	DOZERO		Z			В 000		356

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SEQ	PG	LIN	LABEL	OP	OPERANDS		SFX (CT	LOCN	INSTRU	CTION	TYPE	CARD
2208	20	69		JOB	1401 AUTOCODER-PASS 4 END OF	PASS OVERLAY -VERSION	3						
2209				ORG	SAVE2		Z			0706			
2210			EOJRT	RWD	LITAPE		Ž	5	0706	U (U6	R		359
2211				В	PUT	PUT END CARD	Z	4	0711	B 610			359
2212				WT	OUTAP,OUTPUT+1	ASSURE LAST RECORD	Z	8	0715	M (U5	118 W		359
2213				NOP	0	IS WRITTEN	Z	4	0723	N 000			359
2214				BER	TPERR	WHEN BLOCKING	Z	5	0727	B 221	L		359
2215				WTM	OUTAP		Z	5	0732	U (U5			359
2216				RWD	OUTAP		Z	5	0737	U (U5			359
2217				CS	INPUT+85	CLEAR ALL GROUP	Z	4	0742	/ 085			360
2218				CW	GRPMK2, GRPMK3	MARKS		7	0746) G59	H44		360
2219				CW	GRPMK4		Z	4	0753) 185			360
2220				RTW	SYSTAP, PASSC1	READ PASS 5	Z	8	0757	L (UI	Z25 R		360
2221				NOP	0		Z	4	0765	N 000			360
2222				BER	TPERR		Z	5	0769	B 221	L		360
2223				LCA	TOTLBL,2393	PASS INFORMATION TO	Z	7	0774	L 198			360
2224				LCA	PROCOR, 2389	PASS 5	Z	7	0781	L 194			361
2225				В	PASSC2	GO TO PASS 5	Z	4	0788	B MOO			361
2226	20	88		DCW	0		2	1	0792				361
2227				DCW	1 1	SYSTEM GROUP MARK	Z	1	0793				361
2228				EX	0		Z			B 000			362
2229	20	91	*										
2230			# EQUAT	res									
2231	20	93	*										
2232	20	94	INTAP	EQU	{U4		Z		(U4				
2233	20	95	GUTAP	EQU	(U5		Z		(U5				
2234	20	96	LITAPE	EQU	(U6		Z		(U6				
2235	20	97	K4K	EQU	4000		Z		4000				
2236	20	98	W3AREA	EQU	W6AREA-3	EQUATES	Z		3874				
2237	20	99	W5AREA	EQU	W6AREA-1		Z		3876				
2238	21	00	BLANK	EQU	BLANK4-3		Z		3859				
2239	21	01	BLANK2	EQU	BLANK4-2		Z		3860				
2240	21	02	HOLD2	EQU	B2CNTR-3		Z		3864				
2241	21	03	HOLD3	EQU	B2CNTR-2		Z		3865				
2242	21	04	ABIT	EQU	ZONE-2		Z		0187				
2243			BBIT	EQU	ZONE-1		Z		0188				
2244			ABBIT	EQU	ZONE		Z		0189				
2245			XXXX	EQU	000		Z		0000				
2246				EQU	000		Z		0000				
2247			OUTPUT		3917		Z		3917				
2248			PASSC1		1925		Z		1925				
2249			PASSC2		2400		Z		2400				
2250			DOZERO		000		Z		0000				
2251			FREE	EQU	INPUT		Z		0000				
2252	21	14		END	START		Z			/ N75	080		365

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3751L

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION T	YPE	CARD
101	1	01	000	JOB	1401 AUTOCODER-PASS 5-PROCESS LABELS-INITL-VERSION	3				
102	1	02		CTL	63011					
103		03	*					0		
 104		04		res use	ED BY PROGRAM					
105		05	*							
106		06	INITAP	EQU	(U0		(00			
107		07	SYSTPE		(U1		(U1			
108		08	SAVETP	-	(U4		(U4			
109		09	CINPUT		(U5		(U5			
110		10	COUTPT		(U6		106			
111		11	DOUTPT		(U5		(U5			
112		12	DINPUT		(U6		106			
113		13		EQU	2409		2409			
114		14		EQU	TABLE-006+X2		2403	X		
115		15	SYMHO	EQU	TABLE-005+X2		2404			
116		16		EQU	TABLE-009+X2		2400			
117		17	LBLREF		TABLE-008+X2		2401			
118		18	SYMBOL		TABLE+X2		2409			
119		19	CARD	EQU	0		0000			
120		20		EQU	CARD+001		0001			
121		21	STLABL		CARD+002		0002			
122		22	STADDR		CARD+003		0003			
123		23	STBOP	EQU	CARD+004		0004			
124		24		EQU	CARD+007		0007			
125		25		EQU	CARD+013		0013			
126		26		EQU	CARD+022		0022			
127		27	AOPADJ		CARD+026		0026			
128		28	AINDEX		CARD+027		0027			
129		29	ORGADD		CARD+032		0032			
130		30	CNVLAB		CARD+056		0056			
131		31	LABADD		CARD+061		0061			
132		32	SUPADD		CARD+066		0066			
133		33	AOP	EQU	CARD+070		0070			
134			TYPE	EQU	CARD+075		0075			
	1			EQU	CARD+017		0017			
136		36		EQU	CARD+008		8000			
137		37		EQU	CARD+057		0057			
138		38	TPAREA		3918		3918			
139		39		EQU	TPAREA-001+X3		3917	X		
140		40		EQU	TPAREA+13		3931			
141		41	XXXX	EQU	0		0000			
142		42	GPMRK3		3998		3998			
143		43	LIBRN		0		0000			
144		44	#							
145		45	*							
146		46	* GET.	PUT, F	REDUNDANCY +					
147		47			ROUTINES COMMON					

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION	TYPE	CARD
148	1	48	* TO B	OTH PAS	SSES					
149		49	*	• • • • • • • • • • • • • • • • • • • •						
150		50	#							
151		51		ORG	ENDOFC+1			1925		
152		52	#	00						
153		53	* GET	+ PUT						
154		54	*							
155		55	GET	С	BLKCT, KBLKNG	7	1925	C L30 L26		4
156		56		BE	WRITE	5	1932	B X67 S		4
157		57	NXTREC		+80,BLKCT	7	1937	A L36 L30		4
158		58		MCW	BLKCT, XR3	7	1944	M L30 099		4
159		59	MOVEIN		INPUT, CARD+080	7	1951	M IA7 080		4
160		60		CHAIN					MACRO	
161				MCW		1	1958	M	GEN	4
162				MCW		1	1959	M	GEN	4
163				MCW		1	1960	M	GEN	5
164				MCW		1	1961	M	GEN	5
165				MCW		1	1962	M	GEN	5
166				MCW		1	1963	M	GEN	5 5 5
167				MCW		1	1964	M	GEN	5
168				MCW		1	1965	M	GEN	5
169				MCW		1	1966	M	GEN	5
170	1	61		S	XR3+001	4	1967	S 100		6
171	1	62		S		1	1971	S		6
172	1	63		S		1	1972	S		6
173	1	64		В	ANAL	4	1973	B 114		6
174	1	65	PUT	MCW	BLKCT, XR3	7	1977	M L30 099		6
175	1	66		MCW	CARD+080, INPUT	7	1984	M 080 IA7		6
176	1	67		CHAIN	9				MACRO	
177				MCW		1	1991	M	GEN	6
178				MCW		1	1992	M	GEN	7
179				MCW		1	1993	M	GEN	7
180				MCW		1	1994	M	GEN	7
181				MCW		1	1995	M	GEN	7
182				MCW		1	1996	M	GEN	7
183				MCW		1	1997	M	GEN	7
184				MCW		1	1998	M	GEN	7
185				MCW		1	1999	M	GEN	8
186	1	8 8		В	GET	4	2000	B 225		8
187		69	*							
188		70	*TAPE	REDUNDA	ANCY ROUTINE					
189		71	*							
190		72	TPERR	SBR	XR1	4	2004	H 089		8
191		73		SBR	REDXT+3	4	2008	H -7 6		8
192		74		MZ	+9,XR1	7	2012	Y L37 089		8
193		75		MCW	4000-10+X1, TPINST+7	7	2019	M IZO -67		8
194		76		MN	TPINST+3,BSP1+3	7	2026	D -63 -43		8 8 8 9
195		77		MCW	TPINST+7, INST2+7	. 7	2033	M -67 J76		
196		78	BSP1	BSP	INITAP	5	2040	U (UO B		9
197	1	7 9		BCE	WRTRED, TPINST+7, W	8	2045	B J49 -67 W		9

SEQ	PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION	TYPE	CARD
198	1 80		MCW	+9,READCT=1	7	2053	M L37 L38		
199	1 81	TPINST		INITAP,XXXX	8	2060	M (UO 000 R		9
200	1 82		BER	RDRERR	5	2068	B -77 L		10
201	1 83	REDXT	В	XXXX	4	2073	B 000		10
202	1 84	RDRERR		TPINST+3,BSP2+3	7	2077	D -63 -87		10
203	1 85	BSP2	BSP	INITAP	5	2084	U (UO B		10
204	1 86		S	+1,READCT	7	2089	S L39 L38		10
205	1 87		BWZ	TPINST, READCT, B	8	2096	V -60 L38 B	ł	10
206	1 88		MN	TPINST+3, TPHALT+6	7	2104	D -63 J17		11
207	1 89	TPHALT		XXXX,590	7	2111	. 000 590		11
208	1 90	•••••	MCW	TPINST+7,*+8	7	2118	M -67 J32		11
209	1 91		RT	INITAP, XXXX	8	2125	M (UO 000 R		11
210	1 92		BSS	BSP1,E	5	2133	B -40 E		11
211	1 93	TPHLT3		XXXX,511	7	2138	. 000 511		12
212	1 94	• • • • • • •	В	REDXT	4	2145	B -73		12
213	1 95	WRTRED		SYSTPE	5	2149	U (U1 E		12
214	1 96		BCE	SUBCTR, WRTCTR-1,5	8	2154	B J86 L40 5	•	12
215	1 97		A	+1,WRTCTR=2	7	2162	A L39 L41		12
216	1 98	INST2	WT	INITAP, XXXX	8	2169	M 1U0 000 W		12
217	1 99		BER	BSP1	5	2177	8 -40 L		13
218	2 00		В	REDXT	4	2182	B -73		13
219	2 01	SUBCTR		WRTCTR	4	2186	S L41		13
220	2 02		MN	TPINST+3,*+7	7	2190	D -63 K03		13
221	2 03	TPHLT2	Н	XXXX,560	7	2197	• 000 560		13
222	2 04		В	INST2	4	2204	B J69		13
223	2 05	*							
224	2 06	* CHEC	K FOR	SHORT RECORDS					
225	2 07	#							
226	2 08	CHKLGT	SBR	XR1	4	2208	H 089		13
227	2 09		SBR	LGTXT+3	4	2212	H K46		14
228	2 10		MZ	+9,XR1	7	2216	Y L37 089		14
229	2 11	LGTCK	BCE	4000-12+X1,LIMIT,	8	2223	B 148 131		14
230	2 12		CHAIN	12				MACRO	
231			BCE		1	2231		GEN	14
232			BCE		1	2232	В	GEN	14
233			BCE		1	2233	В	GEN	14
234			BCE		1	2234	В	GEN	14
235			BCE		1	2235	В	GEN	15
236			BCE		1	2236	В	GEN	15
237			BCE		1	2237	В	GEN	15
238			BCE		1	2238	В	GEN	15
239			BCE		1	2239	В	GEN	15
240			BCE		1	2240	В	GEN	15
241			BCE		1	2241	В	GEN	15
242			BCE		1	2242	В	GEN	16
243	2 13	LGTXT	В	XXXX	4	2243	B 000		16
244	2 14	#							
245	2 15	* CROS	SOVER,	C TO D					
246	2 16	*			_				• •
247	2 17	RDPSSD	RTW	SYSTPE,1	8	2247	L (U1 001 R	•	16

			00504405	CEN CT LOCK THETRUSTION THE	
SEQ	PG LIN	LABEL OP	OPERANDS	SFX CT LOCN INSTRUCTION TYPE	CARD
248	2 18	NO	P XXXX	4 2255 N 000	16
249	2 19	BE		5 2259 B -04 L	16
250	2 20	CW		4 2264) Y68	16
251	2 21	В	PASSD	4 2268 B S90	16
252	2 22	*			
253	2 23		ER, D TO C		
254	2 24	*			
255	2 25	RDPSSC RT	W COUTPT,1	8 2272 L (U6 001 R	17
256	2 26	NO		4 2280 N 000	17
257	2 27	BE	R TPERR	5 2284 B -04 L	17
258	2 28	CW	ENDOFC	4 2289 1 724	17
259	2 29	В	CLRTAB	4 2293 B Y13	17
260	2 30	备			
261	2 31	* COMMON	CONSTANTS		
262	2 32	*			
263	2 33	CLRMAX DC	W '197'	3 2299	17
264	2 34	CLRMIN DS	A TABLE-010	3 2302 L99	17
265	2 35	FNCTN DC		6 2308	18
266	2 36	TABMAX DC		3 2311	18
267	2 37	MAXADD DC		3 2314	18
268	2 38	TABLSZ DC		4 2318	18
269	2 39	MAXSER DC		4 2322	18
270	2 40	SFXCTR DC		1 2323	18
271	2 41	KBLKNG DC		3 2326	18
272	2 42	BUMPOP DC		1 2327	19
273	2 43	HOLDA DC		4 2331	19
274	2 44	BLKCT EQ		2330	
275	2 45	TPAD DS		3 2334 I18	19
276	2 46		ORG *	2335	
		DC		2 2336 LIT	19
			+9	1 2337 LIT	19
	198	READCT	=01	1 2338 AREA	19
			+1	1 2339 LIT	19
	215	WRTCTR	=02	2 2341 AREA	20
277	2 47	* 2007567	ED CONCTANTS		
278	2 48		ED CONSTANTS		
279	2 49	# EACTOD FO	TABLE 021	2200	
280	2 50	FACTOR EQ		2388	
281	2 51	MACHSZ EQ		2389	
282	2 52	TOTLAB EQ		2393	
283 284	2 53 2 54	UNPRSW EQ		2394 2395	
285	2 55	SERCHS EQ		2399	
286	2 56	- 3EKU∏3 E₩: -#	O TABLE-UIU	2399	
287	2 57		IZE PASS C ONE	TIMC	
288	2 58	# INTITAL	TEL LW33 C OME	I ATCL	
289	2 59	OR:	G TABLE-009	2400	
290	2 60	RW		5 2400 U (U4 R	21
291	2 61	RW		5 2405 U (U5 R	21
292	2 62	RW		5 2410 U (U6 R	21
- / -	_ J_	17.10	2 33011	2 E410 0 100 K	4.

SEQ	PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
202	2 (2			3000		2415	/ 199	21
293	2 63		CS	3999	4	2419		21
294	2 64		SW	GRPMRK	- 4 7		, Q66	21
295	2 65		LCA	'00', PROCSW		2423	L Q68 L95	21
296	2 66		LCA	+0150, SERCHS	7	2430	L Q72 L99	21
297	2 67		LCA	*0015*,FACTOR	7	2437	L Q76 L88	22
298	2 68		RTW	SYSTPE,1	<u> </u>	2444	L (U1 001 R	22
299	2 69		NOP	XXXX	4	2452	N 000	22
300	2 70		BER	TPERR	5	2456	B -04 L	22
301	2 71		CW	ENDINT	4	2461) R01	22
302	2 72	*						
303	2 73	* SET	I/O GF	ROUP MARK				
304	2 74	*						
305	2 75		MCW	MACHSZ, KEEP1=001	7	2465	M L89 Q77	22
306	2 76		A	+3,KEEPl	7	2472	A Q78 Q77	23
307	2 77		MN	KEEP1, *+004	7	2479	D Q77 M89	23
308	2 78		MZ	ZONE2,*+007	7	2486	Y 109 M99	23
309	2 79	SETIO	LCA	GRPMRK, GPMRK3	7	2493	L Q66 I98	23
310	2 80		BWZ	SETBMP, SETIC+006,2	8	2500	V P18 M99 2	23
311	2 81		CS	4799	4	2508	/ 79Z	24
312	2 82		CS	4399	4	2512	/ 392	24
313	2 83		MCW	*=*,BUMP	7	2516	M Q79 W81	24
314	2 84		BCE	SET8K, MACHSZ, 4	8	2523	B 020 L89 4	24
315	2 85	*	500	SE CONTINUE OF CONTINUE OR CONTINUE OF CONTINUE OF CONTINUE OF CONTINUE OF CONTINUE OF CON	·		3 320 20 ,	- '
316	2 86		CONST	NTS				
317	2 87	# 151	CONST	4413				
318	2 88	-	MCW	BLKG12,KBLKNG	7	2531	M Q52 L26	24
319	2 89		MCW	TBSZ12, TABLSZ	7	2538	M Q56 L18	24
	2 90		MCW	TBLM12, TABMAX	7	2545	M Q59 L11	25
320	41				7	2552	M Q62 L34	25
321	2 91		MCW	TPAD12, TPAD MDTP12, MDTP=003	7	2559	M Q65 Q82	25
322	2 92		MCW	· · · · · · · · · · · · · · · · · · ·			A Q84 L88	25 25
323	2 93		A	+72,FACTOR	7	2566		25 25
324	2 94		BCE	SETTP, MACHSZ, 5	8	2573	B 062 L89 5	20
325	2 95	*	CONCT	LUTE				
326	2 96		CONST	INIS				
327	2 97	*	_		-	2521	4 007 110	•
328	2 98		Α.	+400,TABLSZ	7	2581	A Q87 L18	26
329	2 99		Α	+40,FACTOR	7	2588	A Q89 L88	26
330	3 00		MZ	ABBIT, TABMAX	7	2595	Y 113 L11	26
331	3 01		ΜZ	ABBIT, TPAC	7	2602	Y 113 L34	26
332	3 02		MZ	ABBIT, MDTP	7	2609	Y 113 Q82	26
333	3 03		В	SETTP	4	2616	B 062	26
334	3 04	*						
335	3 05	* 8K (CONSTAI	KTS				
336	3 06	#						
337	3 07	SET8K	MCW	BLKG8K, KBLKNG	7	2620	M Q36 L26	27
338	3 08		MCW	TBSZ8K, TABLSZ	. 7	2627	M Q40 L18	27
339	3 09		MCW	TBLM8K, TABMAX	7	2634	M Q43 L11	27
340	3 10		MCW	TPAD8K, TPAD	7	2641	M Q46 L34	27
341	3 11		MCW	MDTP8K, MDTP	7	2648	M Q49 Q82	27
342	3 12		Α	+36,FACTOR	7	2655	A Q91 L88	28

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			1401 AUTOCODER-PASS 5-PROCESS LABELS-	INITL-VERSION 3	3751L		PAGE	7
SEQ PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION	TYPE	CARD
			+400	3	2887		LIT	35
			+40	2	2889		LIT	35
			+36	2	2891		LIT	35
348	LIMAD		=03	3	2894		AREA	35
			+13	2	2896		LIT	36
			+0009	4	2900		LIT	36
385 3 55	ENDINT	DCW		1	2901			36
386 3 56		XFR	LIBRN			B 000		37

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Α

COUNT, NOWCTR

SEQ	PG LIN	LABEL	OP	OPERANDS		SFX CT	LOCN	INSTRUCTION TYPE CA	ARD
437	4 07		Ŝ	11, NOWCTR		7	0249	S Y93 Y48	49
438	4 08		В	PUT		4	0256		49
439	4 09	*							
440	4 10	* PROC	ESS C	ONSTANTS + DSA					
441	4 11	#							
442	4 12	CONST	BCE	PRCAST, AOPHO, *		8	0260		49
443	4 13		MCW	'1',ACTSW		7	0268		49
444	4 14		В	PROCLB		4	0275		49
445	4 15		В	PUT		4	0279	B Z77	49
446	4 16	*							
447	4 17	* CONS	TANTS	WITH ASTERISK ADDRESS					
448	4 18	#							
449	4 19	PRCAST		PRCADD		4	0283		49
450	4 20		В	PROCLB		4	0287		50
451	4 21		В	PUT		4	0291	B 277	50
452	4 22	*							
453	4 23		ESS D	S + EQUATES					
454	4 24	*		000000 100000 1			0005	0 2/1 017 /	E 0
455	4 25	DS	BCE	PROCTU, AOPHO, (8	0295		50
456	4 26		A	AINDEX, INDETR		7	0303		50
457	4 27		BCE	CONST, AOPHO, *		8	0310		50
458	4 28		BWZ	CONST, AOPHO, 2		8	0318 0326		50 51
459	4 29		BWZ	*+005,STACP,2		8 4	0334		51
460	4 30		В	CONST		*	0554	B 200	21
461 462	4 31 4 32	* = = = = = = = = = = = = = = = = = = =	TE						
463	4 33	* EQUA	116						
464	4 34	*	В	SETAOP		4	0338	B U35	51
465	4 35		MCW	DSAPUT, LABRIN+003		7	0342		51
466	4 36		BWZ	UNPROC, STAOP, 2		8	0349		51
467	4 37		В	CONST		4	0357	B 260	51
468	4 38	*	U	001131		•	0331	5 200	
469	4 39		F INP	UT DEVICE					
470	4 40	*	., 4.44						
471	4 41	PROCTU	MCW	AOPER-003,LABADD-001		7	0361	M 019 060	52
472	4 42		MCW	101		4	0368		52
473	4 43		В	CONST		4	0372	B 260	52
474	4 44	番							
475	4 45	* PROC	ESS O	RIGIN + LITERAL ORIGIN					
476	4 46	*							
477	4 47	ORG	BWZ	SETHGH, CARD+033, B		8	0376	V 405 033 B	52
478	4 48		ZA	LABADD, ORGADD		7	0384	+ 061 032	52
479	4 49		A	'1',ORGADD		7	0391	A Y93 032	52
480	4 50		MZ	ABBIT, CARD+033		7	0398	Y 113 033	53
481	4 51	SETHGH	BCE	ORGSAV, MAXSW, 1		8	0405		53
482	4 52		С	NOWCTR, HGHCTR		7	0413	C Y48 Y58	53
483	4 53		ВН	ORGSAV		5	0420		53
484	4 54		ZA	NOWCTR, HGHCTR		7	0425	+ Y48 Y58	53
485	4 55	*							
486	4 56	* PROC	ESS S	AVE COUNTER OF ORIGIN					

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SEQ	PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
487 488	4 57 4 58	* ORGSAV	BCE	AOPOR, LBLHO,	8	0432	B 536 008	54
489	4 59	CKGJAV	MCW	10051,XR1	7	0440	M Y96 089	54
490	4 60		MCW	+AOPOR, LABRIN+003	7	0447	M Y99 S97	54
491	4 61		BWZ	*+005,STLABL,2	8	0454	V 466 002 2	54
492	4 62		B	ACPOR	4	0462	B 536	54
493	4 63		BCE	STRSAV, SUPADD,	8	0466	B 502 066	55
494	4 64	BTOLAB		DOLABL	4	0474	B T58	55
495	4 65	DICERD	В	SEARCH	4	0478	B W29	55
496	4 66		BCE	STORE, DBLSW, 1	8	0482	8 S69 Y64 1	55
497	4 67		BCE	STORE, SPCSW, O	8	0490	B S69 Y63 0	55
498	4 68		В	UNPROC	4	0498	B /81	55
499	4 69	STRSAV		UNPROC, ADDRSW, 1	8	0502	B /81 Y59 1	56
500	4 70		BCE	UNPROC, LITRSW, 1	8	0510	8 /81 Y61 1	56
501	4 71		MCW	NOWCTR, SUPADD	7	0518	M Y48 066	56
502	4 72		A	'1', SUPADD	7	0525	A Y93 066	56
503	4 73		В	BTOLAB	4	0532	B 474	56
504	4 74	*	•					
505	4 75	* PROC	ESS A	OPERAND OF ORIGIN				
506	4 76	*						
507	4 77	AOPOR	BWZ	*+005,STAGP,2	8	0536	V 548 001 2	57
508	4 78		В	ACTUAL	4	0544	B 761	57
509	4 79		BCE	ASTRSK, AOPHC, *	8	0548	B 708 017 *	57
510	4 80		MCW	'O', LITRSW	7	0556	M Y92 Y61	57
511	4 81		S	NOWCTR	4	0563	S Y48	57
512	4 82		BCE	BLKAOP, AOPHO,	8	0567	B 735 017	57
513	4 83	*						
514	4 84	* SYMB	OLIC C	RIGIN				
515	4 85	*						
516	4 86		MCW	O', ORGSW	7	0575	M Y92 Y66	58
517	4 87		S	XR1+001	4	0582	\$ 090	58
518	4 88		В	SETAOP	4	0586	B U35	58
519	4 89		BCE	SETORG, ORGSW, 1	8	0590	B 609 Y66 1	58
520	4 90	SETSWS	MCW	*11*,MAXSW	7	0598	M Z01 Y60	58
521	4 91		В	SCNTB+7	4	0605	B 813	58
522	4 92	SETORG		LABADD. ORGCTR	7	0609	M 061 Y53	59
523	4 93	RSTSWA		OO, ADDRSW	7	0616	M Y92 Y59	59
524	4 94		BCE	*+005,A0PADJ-002,X	8	0623	B 635 024 X	59
525	4 95		В	AOPOUT	4	0631	8 669	59
526	4 96	*						
527	4 97	* ADJU	STMENT	OF X00				
528	4 98	*			_			
529	4 99		BCE	NXTCNT, AOPHO, *	8	0635	B 655 017 *	59
530	5 00		C	ORGCTR,+00	7	0643	C Y53 Z03	60
531	5 01		BE	AOPOUT	5	0650	B 669 S	60
532	5 02	NXTCNT	_	+00, ORGCTR	7	0655	M Z03 Y53	60
533	5 03	A	A	'1',ORGCTR-002		0662	A Y93 Y51	60
534	5 04	AOPOUT		ORGCTR, ORGADD	1	0669	A Y53 032	60
535	5 05		ZA	ORGCTR, LABACD	(0676	+ Y53 061	61
536	5 06		ZA	ORGADD, NOWCTR	7	0683	+ 032 Y48	61

SEQ	PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
537	5 07		S	*1*,NOWCTR	7	0690	S Y93 Y48	61
538	5 08		MZ		7	0697	Y 113 001	61
539	5 09		M Z B	ABBIT, STAOP	4	0704	B 277	61
540			D	PUT	4	0104	D 211	01
541	5 10	* COIC	TAL ACT	EDICK				
542	5 11 5 12	* CRIG	IN AST	EKISK				
543	5 13	ASTRSK	BCF	PUT, ADDRSW, 1	8	0708	B Z77 Y59 1	62
544	5 14	A31K3K	BCE	SETSWS,LITRSW,1	8	0716	B 598 Y61 1	62
545	5 15		MCW	NOWCTR, ORGCTR	7	0724	M Y48 Y53	62
546	5 16		В	RSTSWA	4	0731	B 616	62
547	5 17	*	ŭ	10.017	•			
548	5 18	* CRIGI	IN MAX	TMUM				
549	5 19	*						
550	5 20	BLKAOP	BCE	SETSWS, MAXSW, 1	8	0735	B 598 Y60 1	62
551	5 21		MCW	HGHCTR, ORGCTR	7	0743	M Y58 Y53	63
552	5 22		A	'1',ORGCTR	7	0750	A Y93 Y53	63
553	5 23		В	RSTSWA	4	0757	8 616	63
554	5 24	*	_		•	- •		
555	5 25		IN ACT	UAL OR PROCESSED				
556	5 26	*						
557	5 27	ACTUAL	ZA	ORGADD, NOWCTR	7	0761	+ 032 Y48	63
558	5 28		S	'1', NOWCTR	7	0768	S Y93 Y48	63
559	5 29		BCE	TSTXOO, AOPHO, *	8	0775	B 821 017 *	64
560	5 30		MCW	'O', LITRSW	7	0783	M Y92 Y61	64
561	5 31		BWZ	SCNTB, AOPHO, 2	8	0790	V 806 017 2	64
562	5 32		BWZ	SETORG, STAOP, K	8	0798	V 609 001 K	64
563	5 33	SCNTB	MCW	O, ADDRSW	7	0806	M Y92 Y59	64
564	5 34	305	S	ORGCTR	4	0813	S Y53	65
565	5 35		В	PUT	4	0817	B 277	65
566	5 36	TSTXOO		PUT, AGPADJ-002, X	8	0821	B Z77 024 X	65
567	5 37		BWZ	PUT, CARD+034,B	8	0829	V 277 034 B	65
568	5 38		A	ORGCTR, ORGADD	7	0837	A Y53 032	65
569	5 39		BCE	PUT, ADDRSW, 1	8	0844	B Z77 Y59 1	65
570	5 40		BCE	PUT, LITRSW, 1	8	0852	B Z77 Y61 1	66
571	5 41		MZ	ABBIT, CARD+034	7		Y 113 034	66
572	5 42		В	ACTUAL	4	0867	B 761	66
573	5 43	*	_				-	
574	5 44	* PROCE	ESS DA	STATEMENTS				
575	5 45	#						
576	5 46	DA	BCE	ORIGDA, TYPE, O	8	0871	B 926 075 0	66
577	5 47		BCE	TSTRPT, ACTSW, 1	8	0879	B 910 Y67 1	66
578	5 48	BTCADD		LABADD, SUPACD	7	0887	C 061 066	67
579	5 49		BL	*+8	5	0894	B 906 T	67
580	5 50		MCW	'005',XR3	7	0899	M Y96 099	67
581	5 51		В	PRCADD	4	0906	B ±03	67
582	5 52	TSTRPT		PUT, TYPE, #	8	0910	B Z77 075 ‡	67
583	5 53	- · · · · · ·	В	PROCLB	4	0918	B /09	67
584	5 54		В	PUT	4	0922	B Z77	67
585	5 55	*						
586	5 56	* DA HE	EADER					
			_					

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SEQ	PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
587 588 589	5 57 5 58 5 59	* QRIGDA	MCW A	*O*,INDFTR AINDEX,INDFTR	7 7	0926 0933	M Y92 Y69 A 027 Y69	68 68
590	5 60		MCW	*1*,DASW	7	0940	M Y93 Y68	68
590 591	5 61		MCW	*O**ACTSW	7	0947	M Y92 Y67	68
592	5 62		BCE	BTOADD, AOPHO, *	8	0954	B 887 017 *	68
593	5 63		MCW	'1', ACTSW	7	0962	M Y93 Y67	69
59 4	5 64		В	TSTRPT	4	0969	B 910	69
59 5	5 65	*	U	131M 1	•	4 ,0,	5 710	0,
596	5 66	* PROC	FSS FX	+ FND				
597	5 67	*	LJJ LA	· LND				
598	5 68	EXEND	BWZ	PUT, TYPE, B	8	0973	V Z77 075 B	69
599	5 69	Z. Z. II	MCW	'B', BRANCH	7	0981	M ZO4 X84	69
600	5 70		В	WRITE	4	0988	B X67	69
601	5 71	*	J		•			- -
602	5 72	* PROC	ESS SU	FFIX				
603	5 73	#		•				
604	5 74	SFX	MCW	AOPHO, SFXCTR	7	0992	M 017 L23	69
605	5 75		В	PUT	4	0999	B Z77	70
606	5 76	#						
607	5 77	* PROC	ESS AD	DRESSES				
608	5 78	*						
609	5 79	PRCADD	SBR	ADDRTN+003	4	1003	H + 89	70
610	5 80		MCW	'O', ACTSW	7	1007	M Y92 Y67	70
611	5 81		BWZ	LITTST, STLABL, K	8	1014	V ±90 002 K	70
612	5 82	TSTADD	BWZ	ADDRIN, STADDR, B	8	1022	V ±86 003 B	70
613	5 83		BCE	ADDRTN, ADDRSW, 1	8	1030	B #86 Y59 1	70
614	5 84		Α	ORGCTR, LABADD	7	1038	A Y53 061	71
615	5 85		Α	ORGCTR, SUPADD	7	1045	A Y53 066	71
616	5 86		С	NOWCTR, LABADD+X3	7	1052	C Y48 OF1	71
617	5 87		BL	*+008	5	1059	B #71 T	71
618	5 88		ZA	LABADD+X3, NOWCTR	7	1064	+ OF1 Y48	71
619	5 89		BCE	ADDRTN,LITRSW,1	8	1071	B #86 Y61 1	72
620	5 90		MZ	ABBIT, STADDR	7	1079	Y 113 003	72
621	5 91	ADDRTN	В	XXXX	4	1086	В 000	72
622	5 92	LITTST		DSAPUT, LABRTN+003	7	1090	M Y72 S97	72
623	5 93		BCE	LITRAL, TYPE,/	8	1097	B T25 075 /	72
624	5 94		В	TSTADD	4	1105	B ‡22	72
625	5 95	*						
626	5 96	* PROC	ESS LA	BEL				
627	5 97	*						7.0
628	5 98	PROCLB		LABRTN+003	4	1109	H S97	73
629	5 99		BWZ	*+005,STLABL,2	8	1113	V /25 002 2	73
630	6 00		В	LABRTN	4	1121	B 594	73
631	6 01		BCE	MRKPRC, LBLHO,	8	1125	B S80 008	73 72
632	6 02		BCE	BTOLBL, ACTSW, 1	8	1133	B /57 Y67 1	73 74
633	6 03		BCE	TSTDBL, LITRSW, 1	8	1141	B S07 Y61 1	74 74
634	6 04	ים וחדם	BCE	TSTDBL, ADDRSW,1	8	1149	B S07 Y59 1 B T58	74 74
635	6 05	BTOLBL		DOLABL	4	1157	8 W29	74 74
636	6 06		В	SEARCH	4	1161	D ML7	14

SE	Q	PG	LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRI	UCTION	TYPE	CARD
63	17	6	07		BCE	DBLDEF, DBLSW, 1	8	1165	B S98	V64 1		74
63			08		BCE	STORE, SPCSW, O	8	1173	B S69			75
63		6		*	DOL	STORE FOR COMPO			5 55	.05 0		
64			10		OCESSE	D LABEL						
64			11	*	002002							
64				UNPROC	MCW	'1', UNPRSW	7	1181	M Y93	L94		75
64			13		A	'1',TOTLAB	7	1188	A Y93			75
64		6			BCE	SETSWL, TYPE,/	8	1195	B \$50	075 /		75
64	-5	6	15		В	LABRTN	4	1203	B \$94			75
64	6	6	16	*								
64	7	6	17	* SEAR	CH TAB	LE FOR DBL DEF LITERAL						
64			18	*								
64		6		TSTDBL		UNPROC, LBLHC, \$	8	1207		008 \$		76
65		6			В	DOLABL	4	1215	B T58			76
65			21		В	SEARCH	4	1219	B W29			76
65			22		BCE	UNPROC, DBLSW, O	8	1223	B /81			76
65			23		BCE	UNPROC, ADDHO,	8	1231	8 /81			76
65			24		ΜZ	BBIT, STLABL	7	1239	Y 112	002		76
65			25		В	LABRTN	4	1246	B \$94			77
65			26	*								
65			27		OCESSE	D LABEL OF LITERAL						
65			28	*								
65			29	SETSWL		LABRITN, LBLHC, \$	8	1250		008 \$		77
66			30		MCW	*11*,LITRSW	7	1258	M Z01	191		77
66		6			В	LABRTN	4	1265	B \$94			77
66			32	* 6760		THE TABLE						
66			33		E LABE	L IN TABLE						
66			34	*		CHCTH CYMPOI	-	12/0		. .		~,~
66			35	STORE	LCA	FNCTN, SYMBOL	7	1269	L L08	M-9		77
66			36	MUNDOC	LCA	HOLDAD	4	1276	L Z12	000		77 79
66			37	MRKPRC		ABBIT, STLABL	7 7	1280 1287	Y 113 M Y93			78 78
66			38	LADOTAL	MCW	*1*,PROCSW	4	1294	B 000	LYJ		78
66			39	LABRTN	Б	XXXX	7	1274	B 000			10
67 67		6				INED LABEL						
67			42	* 6000	LI DEF	INCO CABLE						
67			43	DBLDEF	BCE	STORE, ADDHO,	8	1298	B \$69	M-O		78
67			44	DDEDLI	MZ	BBIT, STLAGL	7	1306	Y 112			78
67		6			BCE	LITRAL, TYPE,/	8	1313	B T25			79
67			46		В	LABRIN			B \$94	0.,,,		79
67			47		U	LADATA	•		0 0,1			• •
67		6		* DOUB	LY DEE	INED LITERAL						
67		6		*		A 17 ha Ar - 3m A - 7 mm 1 7 4 2 ha						
68			50	LITRAL	BWZ	LABRTN, STBOP, B	8	1325	V S94	004 B		79
68			51		MCW	'(',TYPE	7	1333	M Z05			79
68			52		S	COUNT, ORGCTR	7	1340	S 007			79
68			53		S	COUNT, NOWCTR	7	1347	S 007			80
68			54		В	LABRTN	4		B \$94			80
68			55	*								
68			56	* SET	UP LAB	EL + ADDRESS						

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
687	6	57	* FOR	TABLE	SEARCH				
688		58	*						
689		59	DOLABL	SBR	DOLABR+003	4	1358	H U34	80
690	6	60		MCW	LABEL, FNCTN	7	1362	M 013 L08	80
691	6	61		MCW	CNVLAB, ARGUMT=003	7	1369	M 056 Z08	80
692	6	62	SETFUN	BCE	*+005,FNCTN,	8	1376	B T88 L08	80
693	6	63		В	*+008	4	1384	B T95	81
694	6	64		MCW	SFXCTR, FNCTN	7	1388	M L23 L08	81
695	6	65		MCW	LABADD+X1,HCLDAD=004	7	1395	M OW1 Z12	81
696	6	66		BCE	DOINDX, HOADD+X1, O	8	1402	B U17 OV7 0	81
697	6	67		MZ	ABIT, HOLDAD-003	7	1410	Y 111 Z09	81
698	6	68	DOINDX	MN	INDFTR, *+004	7	1417	D Y69 U27	82
699	6	69		ΜZ	ZONE, HOLDAD-001	7	1424	Y 113 Z11	82
700	6	70	DOLABR	В	XXXX	4	1431	В 000	82
701		71	#						
702		72	* PROC	ESS A	OPERAND OF ORIGIN + EQUATE				
703		73	*						
704		74	SETAUP		AOPRTN+003	4	1435	H U87	82
705		75		MCW	+BRSRH, DOLAER+003	7	1439	M Z15 U34	82
706		76		MCW	AOPER, FNCTN	7	1446	M 022 L08	82
707		77		MCW	AOP, ARGUMT	7	1453	M 070 Z08	83
708		78		В	SETFUN	4	1460	B T76	83
709		79	BRSRH	В	SEARCH	4	1464	B W29	83
710		80		BCE	ADDBNK, DBLSW, 1	8	1468	B V03 Y64 1	83
711		81		BCE	STRBNK, SPCSW, O	8	1476	B U88 Y63 0	83
712		82	ACPRTN	I B	XXXX	4	1484	В 000	83
713		83	*		141 TAULE - EROBE				
714		84			IN TABLE, STORE				
715		85		BLANK	ADDRESS				
716		86	# CTOOM		THETH CHARGE	7	1 4 0 0	L LOS M-9	. 0 4
717		87	STRBNK		FNCTN, SYMBOL	4	1488 1495	L Z19	84 84
718 719		88 89		LCA B	AOPRIN	4	1499	B U84	84
720		90	#	Б	AUFRIN	7	1477	8 004	UT
721		91		TEVE V	ALUE FROM TABLE				
722		92	* 1/6:1/	TEAE A	ALOL TROM TABLE				
723		93	ADDBNK	RCE	AOPRIN, ADDHC,	8	1503	B U84 M-0	84
724		94	7000111	MCW	11. ORGSM	7	1511	M Y93 Y66	84
725		95		BWZ	*+5,LBLREF,2	8	1518	V V30 M-1 2	84
726		96		8	*+8	4	1526	B V37	85
727		97		MZ	ABIT, LBLREF	7	1530	Y 111 M-1	85
728		98		MCW	ADDLO, LABADD	7	1537	M M-3 061	85
729		99		BCE	AOPROC, LABADD-3, (8	1544	8 W18 058 (85
730		00		BWZ	*+008, LABADD-003, 2	8	1552	V V67 058 2	85
731		01		MCW	'1',HOADD	7	1560	M Y93 057	86
732		02		BCE	AOPRIN, TYPE, O	8	1567	B U84 075 0	86
733		03	*						
734		04	* ADD	CHARAC	TER ADJUSTMENT FOR EQUATE				
735		05	*						
736	7	06		MZ	LABADD-001, SAVEZN=001	7	1575	Y 060 Z20	86

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SEQ PG	LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
737 7	07		A	AOPADJ, LABADD	7	1582	A 026 061	86
	08		MZ	SAVEZN, LABADD-001	7	1589	Y Z20 060	86
	09		BCE	AOPROC, AINDEX,	8	1596	B W18 027	87
	10		MN	INDFTR, #+004	7	1604	D Y69 W14	87
	11		MZ	ZONE, LABADD-001	7	1611	Y 113 060	87
	12	AOPROC		ABBIT, STAOP	7	1618	Y 113 001	87
	13	AOTROC	В	AOPRIN	4	1625	B U84	87
	14	*	b	AOTRIN	•	1023	5 001	0,
and the second second	15	* TABLE	E SEAD	ru			.	
	16	*	- JEAN	U+1				
	17	SEARCH	SAR	RETURN+003	4	1629	H X66	87
	18	SCANGII	MCW	DBLSW+001,DBLSW	7	1633	M Y65 Y64	88
	19		MCW	TABMAX, MAXADD	7	1640	M L11 L14	88
	20		MCW	ARGUMT, XR2	7	1647	M Z08 094	88
	21		MCW	SERCHS, MAXSER	7	1654	M L99 L22	88
	22	TBLSRH		FNCTN, SYMBOL	7	1661	C LO8 M-9	88
	23	IDESKI	BE	SETDBL	5	1668	B X45 S	89
	24		BCE	RETURN, SYMHO,	8	1673	B X63 M-4	89
	25	BUMP	_	*010*, XR2	7	1681	A Z23 094	89
	26	BUMP	A S	*11*, MAXSER	7	1688	S Y93 L22	89
	27		BM	SETSPC, MAXSER	8	1695	V X56 L22 K	89
					7	1703	C 094 L14	90
	28		C BU	XR2, MAXADD TBLSRH	5	1710	B W61 /	90
	29		BCE			1715	B X56 Y62 1	90
	30			SETSPC, WRAPSW, 1	8 7	1723	M Y93 Y62	90
	31		MCW	*11*,WRAPSW	7	1730	M Z08 L14	90
	32		MCW	ARGUMT, MAXADD				
	33		S	XR2+001	4	1737	S 095	90
	34	_	В	TBLSRH	4	1741	B W61	91
	35	*		401 F				
	36	* LABE	L IN I	ADLE				
	37	*	4011	114 DOLCH		17/5	W V03 V//	01
	38	SETOBL		*1*,DBLSW	7	1745 1752	M Y93 Y64	91 91
	39	_	В	RETURN	4	1/52	B X63	91
	40	* CDAC	- 41/4 7	ADLE				
	41	* SPACE	E AVAL	LADLE				
	42	* CETCOC	MCII	A14 CDCCI	7	1754	M Y93 Y63	0.1
	43	SETSPC		'1',SPCSW	<i>I</i>			91
	44	RETURN	В	XXXX	4	1763	B 000	91
775 7		# TAIO11	T (OUTO	HT DACC C				
	46		1/001P	UT - PASS C				
	47	*		COUTDY TRADEA		17/7	M / HZ 110 H	0.1
	48	WRITE	WT	COUTPT, TPAREA	8	1767	M (U6 I18 W	91
	49		NOP	XXXX	4 5	1775 1779	N 000	91
	50	DDANCH	BER	TPERR			B -04 L	92
	51	BRANCH		FINAL	4	1784	N Y73	92
	52	READ	S	HOLDA	4	1788	S L31	92
	53		RT	CINPUT, TPAREA	8	1792	M (U5 I18 R	92
	54		B	CHKLGT	4	1800	B K08	92
	55		BER	TPERR	5	1804	B -04 L	92
786 7	56		В	NXTREC	4	1809	B Z37	92

;	SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION	TYPE	CARD
	78 7	7	57	#							
	788		58	* CLEAR	R TABLE	AREA					
	789		59	*		· • • • • • • • • • • • • • • • • • • •					
	790		60	CLRTAB	MCW	CLRMAX, CLEAR+003	7	1813	M K99 Y23		93
	791		61		CS	XXXX	4	1820	/ 000		93
	792		62		SBR	CLEAR+003	4	1824	H Y23		93
	793		63		C	CLEAR+003, CLRMIN	7	1828	C Y23 L02		93
	794		64		BU	CLEAR	5	1835	B Y20 /		93
	795		65		В	READ	4	1840	B X88		93
	796		66	NOWCTR	DCW	+00000	5	1848			93
-	797	7	67	ORGCTR	DCW	+00000	5	1853			94
	798	7	68	HGHCTR	DCW	+00000	5	1858			94
	799	7	69	ADDRSW	DCW	101	1	1859			94
	800	7	70	MAXSW	DC	101	1	1860			94
1	801	7	71	LITRSW	DC	101	1	1861			94
	802		72	WRAPSW		101	1	1862			94
	803		73	SPCSW	DC	101	1	1863			94
	804		74	DBLSW	DC	101	1	1864			94
	805		75		DC	101	1	1865			94
	806		76	ORGSW	DCW	101	1	1866			94
	807		77	ACTSW	DCW	101	1	1867			94
	808		78	DASW	DCW	101	1	1868			94
	809		79	INDFTR		101	1	1869			95
	810		80	DSAPUT	DSA	PUT	3	1872	277		95
	811		81	*		C OFT DACC D					
	812		82		JE PAS	S C, GET PASS D					
	813		83	#	1 1 T M	CONTRI	•	1873	11 1116 M		95
	814		84	FINAL	WTM	COUTPT	5 5	1878	U (U6 M U (U5 R		95
	815		85		RWD	CONTE	5 5	1883	U (U6 R		95
	816 817		86 87		RWD	COUTPT RDPSSD	4	1888	B K47		95
	818		88		B LTORG		т	1000	1892		7.7
•	010	ŧ	00		DCW	101	1	1892	1072	LIT	95
					UUN	111	1	1893		LIT	96
						10051	3	1896		LIT	96
			490			+AOPOR	3	1899	536	ADCON	96
			.,,,			1111	2	1901		LIT	96
						+00	2	1903		LIT	96
						181	1	1904		LIT	96
						1(1	ī	1905		LIT	96
			691	ARGUMT		=03	3	1908		AREA	97
			695	HOLDAD		=04	4	1912		AREA	97
			705			+BRSRH	3	1915	U64	ADCON	97
						1	4	1919		LIT	97
			736	SAVEZN		=01	1	1920		AREA	97
						'010'	3	1923		LIT	97
	819		89	ENDOFC		1 1	1	1924			97
-	820	7	90		XFR	LIBRN			В 000		98

SEQ PG LIN	LABEL	OP	OPERANDS		SFX CT	LOCN	INSTRUCTION TYPE	CARD
821 7 91 822 7 92	#	JOB	1401 AUTOCODER-PASS 6-PROCESS OPERANDS	-VERSION	3			
823 7 93	91	DCW	1000001		5	0091		101
824 7 94	96	DCW	*00000 *		5	0096		101
825 7 95	101	DCW	'00000'		5	0101		101
826 7 96	109	DCW	*2SKB*		4	0109		102
827 7 97	113	DCW	'2SKB'		4	0113	••	102
828 7 98		ORG	ZONE+001				0114	
829 7 99	*							
830 8 00	* DETE	RMINE	RECORD TYPE					
831 8 01	*							
832 8 02		MCW	O', ASTRSW		7	0114	M U32 U18	102
833 8 03		BM	PUT, CARD+005		8	0121	V Z77 005 K	102
834 8 04		BCE	PUT, TYPE, (8	0129	B Z77 075 (102
835 8 05		MN	TYPE, TYPEA=001		7	0137	D 075 U33	102
836 8 06		BCE	PRINST, TYPEA,		8	0144	8 196 U33	103
837 8 07		BCE	PRDSA, TYPEA, 2		8	0152	B 318 U33 2	103
838 8 08		BCE	PROEND, TYPEA, 3		8	0160	8 446 U33 3	103
839 8 09		BCE	PROSFX, TYPEA, 4		8	0168	B S79 U33 4	103
840 8 10		BCE	ORGEQU, TYPEA, 6		8	0176	B 489 U33 6	104
841 8 11		BCE	ORGEQU, TYPEA, 7		8	0184	B 489 U33 7	104
842 8 12		В	PUT		4	0192	B Z77	104
843 8 13	*							
844 8 14		ESS IN	ISTRUCTIONS					
845 8 15	*				_			•
846 8 16	PRINST		SETAST, STADDR, 2		8	0196	V 208 003 2	104
847 8 17		В	LOADDR		4	0204	B 215	104
848 8 18	SETAST	MCW	'1', ASTRSW		7	0208	M U34 U18	104
849 8 19	*		04 4000500					
850 8 20		ASIEKI	SK ADDRESS					
851 8 21	*	- 4	1.404D0 ACTADO-005		~	A21E	. 0/1 1/20	105
852 8 22	LOADDR		LABADD, ASTADD=005		7 7	0215 0222	+ 061 U39 A 007 U39	105 105
853 8 23		A	COUNT, ASTADD		7	0222	S U34 U39	105
854 8 24	*	S	'1', ASTADD		í	0229	3 034 039	100
855 8 25	* TECT	EOD A	ODEDANO					
856 8 26 857 8 27	* 1631	-FUK A	OPERAND					
858 8 28	•	BCE	PUT, COUNT, 1		8	0236	B Z77 007 1	105
859 8 29		BCE	PUT, COUNT, 2		8	0244	B Z77 007 2	105
860 8 30		BWZ	*+005,STACP,2		8	0252	V 264 001 2	106
861 8 31		B	SEEBOP		4	0260	B 268	106
862 8 32		В	PROCOP		4	0264	B 578	106
863 8 33	*	J	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1		·•	
864 8 34	# TFST	FOR R	OPERAND					
865 8 35	*		· wiminists					
866 8 36	SEEBOP	BCF	PUT, COUNT, 4		8	0268	B Z77 007 4	106
867 8 37		BCE	PUT, COUNT, 5		8	0276	B 277 007 5	106
868 8 38		BWZ	*+005,STB0P,2		8	0284	V 296 004 2	107
869 8 39		8	PUT		4	0292	B 277	107
870 8 40		MCW	*003*,XR3		7	0296	M U42 099	107

SEQ	PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
871	8 41		MCW	*011*,XR1	7	0303	M U45 089	107
872	8 42		В	PROCOP	4	0310	B 578	107
873	8 43		В	PUT	4	0314	B Z77	107
874	8 44	*	_					
875	8 45	* PROC	ESS DS	A AND ADCON				
876	8 46	# .						
877	8 47	PRDSA	BWZ	*+005,STADDR,2	8	0318	V 330 003 2	108
878	8 48		8	TSTPRC	4	0326	B 434	108
879	8 49		MCW	11, ASTRSW	7	0330	M U34 U18	108
880	8 50	SETDSA		LABADD, ASTADD	7	0337	+ 061 U39	108
881	8 51		MCW	'003',XR3	7	0344	M U42 099	108
882	8 52		MCW	*011*,XR1	7	0351	M U45 089	109
883	8 53		BWZ	*+005,STBOP,2	8	0358	V 370 004 2	109
884	8 54		В	PUT	4	0366	B Z77	109
885	8 55		В	PROCOP	4	0370	B 578	109
886	8 56		BWZ	PUT, STBOP, 2	8	0374	V 277 004 2	109
887	8 57		BCE	CMP16K, AINDEX,-	8	0382	B 409 027 -	109
888	8 58	COMPRS		+PUT,OPRTN+3	7	0390	M U48 /78	110
889	8 59		BCE	PUT, AOP+1, (8	0397	B Z77 071 (110
890	8 60		В	CNVT03	4	0405	B ‡94	110
891	8 61	* 057	1 / 2 2 2	COMPLEMENT				
892	8 62		16000	COMPLEMENT				
893	8 63	# CM01/V	MCM	•14000 FNCTN: 001	7	0409	M U53 L07	110
894	8 64	CMP16K		+16000, FNCTN-001	7	0409	S U58 L07	110
895	8 65		S	HOLDAR, FNCTN-001	7	0413	+ L07 U58	111
896	8 66		ZA	FNCTN-001, HOLDAR=005	4	0423	B 390	111
897	8 67	TCTDDC	B 5 11 7	COMPRS SETDSA, STBOP, 2	8	0434	V 337 004 2	111
898 899	8 68 8 69	TSTPRC	B	PUT	4	0442	B 277	111
900	8 70	*	Đ	rui	- T	0112	<i>5</i> 2	***
901	8 71		ECC EX	+ END				
902	8 72	* FROC	CJJ EA	, LAD				
903	8 73	PROEND	ς	ASTADD	4	0446	S U39	111
904	8 74	INCEND	BWZ	*+005,STAOP,2	8	0450	V 462 001 2	111
905	8 75		В	*+005	4	0458	B 466	111
906	8 76		В	PROCOP	4	0462	B 578	112
907	8 77		BCE	ENDOPN, TYPE, 3	8	0466	B 478 075 3	112
908	8 78		В	PUT	4	0474	B 277	112
909	8 79	ENDOPN		*B*,BRNCH2	7	0478	M U59 X84	112
910	8 80		В	PUT	4	0485	B Z77	112
911	8 81	*						
912	8 82	* PROC	ESS OR	IGIN + EQUATE				
913	8 83	*						
914	8 84	ORGEQU	BWZ	*+005,STACP,2	8	0489	V 501 001 2	112
915	8 85		В	ORGOUT	4	0497	B 574	112
916	8 86		BCE	ORGOUT, AOPHC,	8	0501	B 574 017	113
917	8 87		BWZ	ORGOUT, AOPHO, 2	8	0509	V 574 017 2	113
918	8 88		BCE	ORGOUT, AOPHO, *	8	0517	B 574 017 *	113
919	8 89		BCE	ORGOUT, AOPHO, (8	0525	B 574 017 (113
920	8 90		В	PROCOP	4	0533	В 578	113

SEQ P	G LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
921	8 91		BWZ	ORGOUT, STAOP, 2	8	0537	V 574 001 2	114
	8 92		MCW	10', ITERSW	7	0545	M U32 U28	114
	8 93		BCE	*+008,TYPEA,7	8	0552	B 567 U33 7	114
	8 94		MZ	BBIT, STAOP	7	0560	Y 112 001	114
	8 95		MCW	HOLDAR, LABADD	7	0567	M U58 061	114
926	8 96	ORGOUT		PUT	4	0574	B Z77	115
	8 97	*	U			9511	5 2 7 7	
	8 98		ESS N	PERAND SUB-ROUTINE				
	8 99	* 1100		ENAME SOC NOT THE				
930	9 00	PROCOP	SBR	OPRTN+003	4	0578	H /78	115
	9 01		BWZ	*+005,STAOP+X3,2	8	0582	V 594 0+1 2	115
	9 02		В	OPRTN	4	0590	B /75	115
	9 03		BCE	SETZRO, AOPHC+X1,	8	0594	B 942 0/7	115
	9 04		BCE	PERCNT, AOPHC+X1, (8	0602	B 950 0/7 L	115
	9 05		BWZ	FLOAT, AOPHO+X1,2	8	0610	V S21 0/7 2	116
	9 06		BCE	PROAST, AOPHC+X1, *	8	0618	8 /90 0/7 *	116
	9 07	*		, ,				
	9 08	* CONV	ERT S	YMBOL TO TABLE ADDRESS				
	9 09	*						
940	9 10	CNVSYM	BCE	*+005,A0P-002+X3,	8	0626	B 638 OF8	116
	9 11		В	SETSYM	4	0634	B 804	116
	9 12		MCW	ADPER+X1,W6AREA=006	7	0638	M 0S2 U65	116
943	9 13		BCE	*+5,W6AREA,	8	0645	B 657 U65	117
944	9 14		В	*+8	4	0653	B 664	117
945	9 15		MCW	SFXCTR, W6AREA	7	0657	M L23 U65	117
946	9 16		ZA	+2,HOLD2=002	7	0664	+ U66 U68	117
947	9 17		ZA	W6AREA-002,H0LD4=004	7	0671	+ U63 U72	117
948	9 18		A	W6AREA, HOLD4	7	0678	A U65 U72	118
949	9 19		A	W6AREA, HOLD4-002	7	0685	A U65 U70	118
950	9 20		MZ	NOBIT, HOLD4	7	0692	Y 110 U72	118
951	9 21		ZΑ	FACTOR, HOLD7	7	0699	+ L88 U26	118
	9 22	MPYLP	MN	HOLD7, HOLD1	7	0706	D U26 U27	118
953	9 23		ZA		1	0713	+	118
	9 24	MULT	BCE	NXTDGT,HOLD1,+	8	0714	B 740 U27 +	119
	9 25		A	HOLD4, HOLD7-002	7		A U72 U24	119
956	9 26		S	+1,HOLD1	7.	0729	S U73 U27	119
957	9 27		В	MULT	4	0736	8 714	119
958	9 28	NXTDGT		+1,HOLD2	7	0740	S U73 U68	119
959	9 29		BWZ	MPYLP, HOLD2, B	8	0747	V 706 U68 B	120
960	9 30		MCW	'000', AOP+X3	7	0755	M U76 0G0	120
961	9 31		BAV	*+001	5	0762	B 767 Z	120
962	9 32	LOOP1	Α	+96,HOLD7-005	7	0767	A U78 U21	120
963	9 33		BAV	LOOP1	5	0774	B 767 Z	120
964	9 34		MZ	HOLD7-006, ACP+X3	7	0779	Y U20 0G0	120
965	9 35		MCW	HOLD7-003	4	0786	M U23	121
966	9 36		MN	HOLD7-005,*+004	7	0790	D U21 800	121
967	9 37		ΜZ	ZONE2, ADP-002+X3	7	0797	Y 109 0F8	121
	9 38	# CAN	01.70	ODEDAND				
969	9 39	* 21MB	ひしまし	OPERAND				

1401 AUTOCODER-PASS 6-PROCESS OPERANDS

970 9 40

SEQ	PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
971	9 41	SETSYM	MCH	AOPER+X1, FNCTN	7	0804	M 0S2 L08	121
972	9 42	SEISIM	BCE	*+005,FNCTN,	8	0811	B 823 L08	121
	9 43			*+005;FNC1N; *+008	4	0819	B 830	121
973			B					
974	9 44		MCW	SFXCTR, FNCTN	7	0823	M L23 L08	122
975	9 45		MCW	TABMAX, MAXADD	7	0830	M L11 L14	122
976	9 46		MCW	'0',SWICH1	7	0837	M U32 U19	122
977	9 47		MCW	AOP+X3, XR2	7	0844	M 0G0 094	122
978	9 48		MCW	SERCHS, MAXSER	7	0851	M L99 L22	122
979	9 49	*						
980	9 50	* TABL	E SEAI	КСН				
981	9 51	*	_		_	0		
982	9 52	SRHLOP		FNCTN, SYMBOL	7	0858	C L08 M-9	123
983	9 53		BE	RECALL	5	0865	B 980 S	123
984	9 54		BCE	UNDEF, SYMHO,	8	0870	B 961 M-4	123
985	9 55	BUMPER		*010*,XR2	7	0878	A U81 094	123
986	9 56		S	11, MAXSER	7	0885	S U34 L22	123
987	9 57		BM	UNDEF, MAXSER	8	0892	V 961 L22 K	124
988	9 58		C	XR2, MAXADD	7	0900	C 094 L14	124
989	9 59		BU	SRHLOP	5	0907	B 858 /	124
990	9 60		BCE	UNDEF, SWICH1,1	8	0912	B 961 U19 1	124
991	9 61		MCW	*1*,SWICH1	7	0920	M U34 U19	124
992	9 62		MCW	AOP+X3, MAXACD	7	0927	M 0G0 L14	125
993	9 63		S	XR2+001	4	0934	S 095	125
994	9 64		В	SRHLOP	4	0938	B 858	125
995	9 65	*						
996	9 66	* BLAN	K OPE	RAND				
997	9 67	*						
998	9 68	SETZRO	S	HOLDAR	4	0942	\$ U58	125
999	9 69		В	CHRADJ	4	0946	B ‡49	125
1000	9 70	#						
1001	9 71	* PERC	ENT O	PERAND				
1002	9 72	*						
1003	9 73	PERCNT	MCW	AOPER-003+X1,AOP+X3	7	0950	M 0/9 0G0	125
1004	9 74		В	MARK	4	0957	8 /68	125
1005	9 75	#	-					
1006	9 76		FINED	OPERAND				
1007	9 77	*						
1008	9 78	UNDEF	BCE	OPRTN, ITERSW, 0	8	0961	B /75 U28 O	126
1009	9 79	0	MCW	!===!, AOP+X3	7	0969	M U84 OGO	126
1010	9 80		В	OPRTN	4	0976	B /75	126
1011	9 81	*	J		·	• • • • • • • • • • • • • • • • • • • •		
1012	9 82		TEVE 1	ALUE FROM TABLE				
1013	9 83	#	1 ·	THE PROPERTY OF THE PROPERTY O				
1014	9 84	RECALL	BCE	UNDEF, ADDHO,	8	0980	B 961 M-0	126
1015	9 85	REGREE	BWZ	*+5,LBLREF,2	8	0988	V #00 M-1 2	126
1016	9 86		B	*+8	4	0996	B ‡07	126
1017	9 87		MZ	ABIT, LBLREF	7	1000	Y 111 M-1	127
1018	9 88		MCW	ADDLO, HOLDAR	7	1007	M M-3 U58	127
1019	9 89		MCW	404	4	1014	M U32	127
1020	9 90		BCE	IOADD, HOLDAR-003, (8	1018	B /79 U55 (127
1020	2 20			* Outofile four AAAA	· ·			

SEQ !	PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
1021	9 91		BWZ	*+008,HULDAR-003,2	8	1026	V #41 U55 2	127
	9 92		MCW	11. HOLDAR-004		1034		128
1023	9 93		BCE	TSTCNV, TYPEA, 6		1041		128
1024	9 94	*						
1025	9 95		CHARAC	TER ADJUSTMENT				
1026	9 96	*						
1027	9 97	CHRADJ	MZ	HOLDAR-001, HOLDZN=001	7	1049	Y U57 U85	128
	9 98		BCE	TSTCNV, AOPADJ-002+X1,X	8	1056	8 +78 OS4 X	128
	9 99		A	AOPADJ+X1, HOLDAR	7	1064	A 0S6 U58	128
1030	10 00		MZ	HOLDZN, HOLDAR-001	7	1071	Y U85 U57	129
1031		TSTCNV	ВМ	MARK, TYPE	8	1078	V /68 075 K	129
1032			BCE	MARK, TYPEA, 2	8	1086	B /68 U33 2	129
1033	10 03	#						
1034	10 04	* CONV	ERT FI	VE DIGIT ADDRESS TO THREE DIGIT ADDR				
1035	10 05	*						
1036	10 06	CNVT03	BAV	* +001	5	1094	B ‡99 Z	129
1037			A	1961,HOLDAR-003	7	1099	A U87 U55	129
1038			BAV	CNVT03+005	5	1106	B +99 Z	130
1039			MZ	HOLDAR-004, HOLDAR	7	1111	Y U54 U58	130
1040			MN	HOLDAR-003, #+004	7	1118	D U55 /28	130
1041			MZ	ZONE2, HOLDAR-002	7	1125	Y 109 U56	130
1042			MZ	HOLDZN, HOLDAR-001	7	1132	Y U85 U57	130
1043			BCE	STRADD, AINDEX+X1,	8	1139	B /61 OS7	131
1044			MN	AINDEX+X1, *+004	7	1147	D 0S7 /57	131
1045			MZ	ZONE, HOLDAR-001	7	1154	Y 113 U57	131
1046		STRADD	MCW	HOLDAR, AOP+X3	7	1161	M U58 OGO	131
1047		*						
1048			OPERA	ND PROCESSED				
1049		*	44.7	ADD ** 0**** 0.140	_			
1050		MARK	MZ	ABBIT, STAGP+X3	7		Y 113 0+1	131
1051		OPRTN	В	XXXX	4	1175	B 000	132
1052		* 1/0	******	C TAL TABLE				
1053 1 1054 1			AUUKES	S IN TABLE				
		# IOADD	MCU	HOLDAR-001,AOP+X3	-7	1170	M U57 OGO	132
1055 1 1056 1		TUALU	B	MARK	1 A		B /68	132
1057		*	Ð	NANN	7	1130	B 700	172
1058		* ASTE	BISK U	DERAND				
1059		*	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CHAID				
1060		PROAST	BCE	*+5,AOPER+X1,	8	1190	B S02 0S2	132
1061		1 11000	В	CNVSYM	4	1198	B 626	132
1062			BCE	OPRTN, ASTRSW, 1	8	1202	B /75 U18 1	132
1063			MCW	ASTADD, HOLDAR	7	1210	M U39 U58	133
1064			В	CHRADJ	4	1217	B #49	133
1065		*	_		·			
1066			AL OPE	RAND - FLOAT TO 5 DIGITS				
1067		*						
1068		FLOAT	BCE	CNVSYM, AOPHO+X1,=	8	1221	B 626 0/7 =	133
1069			BCE	CNVSYM, AOPHO+X1, 1	8	1229	B 626 0/7 1	133
1070			BWZ	*+005,AOPER-004+X1,2	8	1237	V S49 0/8 2	133

SEQ	PG	LIN	LABEL	OP	GPERANDS	SFX CT	LOCN	INSTRUCTION	TYPE	CARD
1071	10	4.1		Ð	CAMCAN	L	1265	0 424		122
1071 1072				B Za	CNVSYM ADPER-001+X1, HOLDAR	4 7	1245 1249	B 626 + 0S1 U58		133 134
1072			REFLOT		*+005,HOLDAR,+	8	1256	B S68 U58 +		134
1075			KELLOI		CHRADJ	4	1264	B \$49		134
1075				B Za	HOLDAR-001, HOLDAR	7	1268	+ U57 U58		134
1076				В	REFLOT	4	1275	B S56		134
1077			*	U	REI EGI	7	ILIJ	0 370		134
1078			* PROCI	ESS SIII	EETY					
1079			* FROCE							
1080			PROSEX	MCW	AOPHO, SFXCTR	7	1279	M 017 L23		134
1081			* 11.C 3. A	В	PUT	4	1286	B Z77		135
1082			# .	J		•	1.00	D LIV		133
1083				[AL 17F	PASS D					
1084			*							
1085			PASSD	SW	GPMRK2-1	4	1290	, U30		135
1086				RTW	DINPUT, BYPRD	8	1294	L (U6 U29 R		135
1087				CW	GPMRK2-1	4	1302) U30		135
1088				CS	CARD+080	4	1306	/ 080		135
1089			•	SW	CARD+001, CARD+006	7	1310	, 001 006		135
1090				SW	CARD+017, CARD+024	7	1317	, 017 024		135
1091				S₩	CARD+028, CARD+035	7	1324	, 028 035		136
1092				SW	CARD+057, CARD+062	7	1331	, 057 062		136
1093				SW	CARD+068, CARD+071	7	1338	, 068 071		136
1094				MCW	BUMPOP, BUMPER	7	1345	M L27 878		136
1095				MCW	161, TPHALT+4	7	1352	M U88 J15		136
1096	10	66		MCW	161,TPHLT2+4	7	1359	M U88 K01		137
1097	10	67		MCW	*6*,TPHLT3+4	7	1366	M U88 J42		137
1098	10	68		MCW	TPAD, WRITE2+006	7	1373	M L34 X73		137
1099	10	69		MCW	TPAD, READ2+010	7	1380	M L34 X98		137
1100				MCW	' ',SFXCTR	7	1387	M U89 L23		137
1101			*							
1102			* TEST	LAST	ITERATION					
1103			*							
1104				BCE	LSTITR, PROCSW, O		1394	B U07 L95 0		138
1105				BCE		1	1402			138
1106				В	READ2	4	1403	B X88		138
1107			LSTITR		11', ITERSW	7	1407	M U34 U28		138
1108				В	READ2	4	1414	B X88		138
1109			ASTRSW			1	1418			138
1110			SWICH1		101	1	1419			138
1111			HOLD7	DCW		7	1426			139
1112			HOLD1	DCW	+0	1	1427			139
1113			ITERSW		• •	1	1428			139
1114			BYPRD	DCM		1	1429			139
1115			GPMRK2		1 000	2	1431			139
1116			SSOP	EQU	1900		1900	1/22		
1117	TO	81		LTORG	•0•	1	1622	1432	1 1 7	120
		025	TYPEA	DCW	=01		1432 1433		LIT AREA	139 139
		835	ITEA		111	1	1434		LIT	139
					1	1	エインマ		-11	137

SEQ PG LIN	LABEL OP	OPERANDS	SFX CT	LOCN	INSTRUCTION	TYPE	CARD
852	ASTADD	=05	5	1439		AREA	140
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10031	3	1442		LIT	140
		'011'	3	1445		LIT	140
888		+PUT	3	1448	277	ADCON	140
		+16000	5	1453		LIT	140
896	HOLDAR	=05	5	1458		AREA	140
		B	1	1459		LIT	140
942	W6AREA	=06	6	1465		AREA	141
		+2	1	1466		LIT	141
946	HOLD2	=02	2	1468		AREA	141
947	HOLD4	=04	4	1472		AREA	141
		+1	1	1473		LIT	141
		'000'	3	1476		LIT	141
		+96	2	1478		LIT	141
		'010'	3	1481		LIT	142
		1===1	3	1484		LIT	142
1027	HOLDZN	=01	1	1485		AREA	142
		1961	2	1487		LIT	142
		161	1	1488		LIT	142
		1 1	1	1489		LIT	142
1118 10 88	*						
1119 10 89	* INPUT/OUTP	UI - PASS U					
1120 10 90	*	HOTTE			1747		
1121 10 91	ORG	WRITE	o	1767	1767 M (U5 I18 W		142
1122 10 92	WRITE2 WT	DOUTPT, TPAREA	8	1775	N 000		143 143
1123 10 93	NOP	XXXX	4 5	1779	B -04 L		143
1124 10 94 1125 10 95	BER NOR	TPERR	4	1784	N Y13		143
1126 10 96	BRNCH2 NOP READ2 S	FINALD HOLDA	4	1788	S L31		143
1127 10 97	READ2 S RT	DINPUT, TPAREA	8	1792	M (U6 I18 R		143
1128 10 98	В	CHKLGT	4	1800	B K08		143
1129 10 99	BER	TPERR	5	1804	B -04 L		144
1130 11 00	В	NXTREC	4	1809	B Z37		144
1131 11 01	*	MATRICO	•	200,			
1132 11 02	FINALD WTM	DOUTPT	5	1813	U (U5 M		144
1133 11 03	RWD	DINPUT	5	1818	U (U6 R		144
1134 11 04	RWD	DOUTPT	5	1823	U (U5 R		144
1135 11 05	RTW	SYSTPE,333	8	1828	L (U1 333 R		144
1136 11 06	NOP	XXXX	4	1836	N 000		144
1137 11 07	BER	TPERR	5	1840	B -04 L		145
1138 11 08	CW	ENDOVL	4	1845) \$45		145
1139 11 09	MCW	BUMPOP, TSTLST	7	1849	M L27 474		145
1140 11 10	MCW	BUMPOP, NOT	7	1856	M L27 726		145
1141 11 11	В	TSTREF	4	1863	В 333		145
1142 11 12	DCW	1 1	1	1867			145
1143 11 13	ENDOFD DCW	1 1	1	1868			145
1144 11 14	EX	LIBRN			B 000		146

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
1145	11	15		JOB	1401 AUTOCODER-PASS 6 PRINT SYMBOL TABLE -VERSION	3			
1146			*	300	1401 AUTOCODER FASS O FRINT STREET TABLE VERSION	,			
1147			_	ORG	333			0333	
1148			*	J. ()					
1149			* END	OF PAS	S D				
1150			*						
1151			* PRIN	T LIST	OF UNREFERENCED LABELS				
1152			*						
1153			TSTREF	CS	0332	4	0333	/ 332	149
1154				CS		1	0337	/	149
1155	11	25		S	XR3+1	4	0338	S 100	149
1156	11	26		S		1	0342	S	149
1157	11	27		S		1	0343	\$	149
1158	11	28		SW	HEADSW=001	4	0344	, /80	149
1159	11	29	NXTLBL	BCE	TSTLST,SYMHO,	8	0348	B 474 M-4	149
1160				BCE	TSTLST, ADDHO,	8	0356	B 474 M-0	150
1161				BCE	LOZNG, SYMHO,)	8	0364	B 530 M-4)	150
1162				C	SYMHO, * A*	7	0372	C M-4 /81	150
1163				ВН	DOREF	5	0379	B 441 U	150
1164				C	SYMHO, "Z"	7	0384	C M-4 /82	150
1165				BL	DOREF	5	0391	B 441 T	151
1166				MN	SYMHO, XR3	7	0396	D M-4 099	151
1167				BWZ	SWTAB, SYMHO, B	8	0403	V 433 M-4 B	151
1168				A	*010*, XR3	7	0411	A /85 099	151
1169				BM	SWTAB, SYMHO	8	0418	V 433 M-4 K	151
1170				A	*010*,XR3	7	0426	A /85 099	152
1171			SWTAB	SW	SORTAB+X3	4	0433	, /D8	152
1172				S	XR3+2	4	0437	S 101	152
1173			DOREF	BWZ	*+5,LBLREF,2	8	0441	V 453 M-1 2	152
1174				В	TSTLST	4	0449	B 474	152
1175				BW	NEWPGE. HEADSW	8	0453	V 502 /80 1	152
1176			DONEXT		HEADSW	4	0461) /80	152
1177				В	PRINT	4	0465	B 538	153
1178				W		1	0469	2	153
1179				CS	216			/ 216	153
1180			TSTLST	_	'010', XR2	7	0474	A /85 094	153
1181				C	XR2, TABMAX	7	0481	C 094 L11	153
1182				BE	DUMP	5	0488	B 646 S	153
1183				BCV	NEWPGE	5	0493	B 502 *	153
1184			WEL-005	В	NXTLBL	4	0498	8 348	154
1185			NEWPGE		1	2	0502	F 1	154
1186				MCW	'UNREFERENCED LABELS',219	7	0504	M S04 219	154
1187				CC u	T	2	0511	FT	154
1188				W	0210	1	0513	2	154
1189 1190				CS BW	0219	4	0514 0518	/ 219 V 461 /80 1	154 154
1190					DONEXT, HEADSW	8 4	0526	8 348	154 155
1191			LOZNG	B Sw	NXTLBL LIST-1	4	0530	, /78	155 155
1192			LUZNU	S M B	DOREF	4	0534	B 441	155
1194			*	Ü	DUNE	7	UJJT	D TTI	100
**/*	* *	O-T							

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUC	TION	TYPE	CARD	
1195	11	65	* PRINT	r subr	OUTINE FOR UNREFERENCED LABELS + SYMBOL TABLE								
1196			*										
1197			PRINT	SBR	PRTXT+3		4	0538	H 634			155	
1198				MCW	SYMBOL, 206+X1		7	0542	M M-9 2	‡ 6		155	
1199				BCE	DOIG, ADDHG, (8	0549	B 635 M	-0 (155	
1200	11	70		MN	ADDLO, 212+X1		7	0557	D M-3 2	/2		155	
1201	11	71		MN			1	0564	D			156	
1202				MN			1	0565				156	
1203				MN			1		D			156	
1204				BWZ	*+8,ADDHO,2		8		V 582 M			156	
1205				MCW	'1',208+X1		7	0575	M SO5 2			156	
1206				BWZ	PRTXT, ADDLO-1, 2		8	0582	V 631 M			156	
1207				MN	'1',215+X1		7	0590	D SO5 2	/5		156	
1208				MCW	*+X*		4	0597	M S07	2 6		157	
1209				BWZ	PRTXT,ADDLO-1,S		8	0601	V 631 M			157	
1210				MN	121,215+X1		7	0609 0616	D S08 2 V 631 M			157	
1211 1212				BWZ MN	PRTXT, ADDLO-1, K		8 7	0624	D S09 2			157 157	
1212			PRTXT	В	*3*,215+X1 XXXX		4	0631	B 000	7)		157	
1214			0010	MCW	ADDLO,212+X1		7	0635	M M-3 2	12		158	
1215			0010	В	PRTXT		4	0642	B 631	_		158	
1216			*	5	INIAI		•	0012	5 031			170	
1217				T SYMB	OL TABLE								
1218			*										
1219			DUMP	В	NXTPGE		4	0646	B 859			158	
1220				S	XR3+1		4	0650	S 100			158	
1221				S			1	0654	S			158	
1222	11	92		S			1	0655	S			158	
1223	11	93	NXTCTR	SW	ENDSW=1		4	0656	, \$10			158	
1224				BW	SCAN, SORTAB+1+X3		8	0660	V 687 /			159	
1225			BMPXR3	BCE	TSTEOJ, SORTAB+1+X3, 1		8	0668	B 888 /			159	
1226				A	+1,XR3		7	0676	A S11 0	99		159	
1227				В	NXTCTR		4	0683	B 656			159	
1228			SCAN	BCE	BMPXR3, SORTAB+1+X3,-		8	0687	B 668 /			159	
1229				BCE	BMPXR3, SORTAB+1+X3, ‡				B 668 /			160	
1230				BCE	BMPXR3, SORTAB+1+X3,/		8	0703	B 668 /			160	
1231			TCTLDI	MCW	SORTAB+1+X3,TSTLBL+7		1	0711	M /D9 7			160	
1232			TSTLBL	BUE	DOPNT, SYMHO, X		8	0718 0726	B 777 M-A /85 0			160	
1233 1234			NOT	A	'010',XR2 XR2,TABMAX		7	0733	C 094 L			160 161	
1235				C BU	TSTLBL		5	0740	B 718 /			161	
1236				S	XR2+1		4	0745	\$ 095			161	
1237				S	ANZ / I		ì	0749	S			161	
1238				Δ	+1,XR3		7	0750	A S11 0	99		161	
1239				CW	ENDSW		4	0757) \$10			161	
1240				BW	PNTSYM, PNTSW		8	0761	V 812 S	18 1		161	
1241				SW	PNTSW		4	0769	, \$18			162	
1242				В	TSTESW		4	0773	B 847			162	
1243			DOPNT	BCE	NOT, ADDHO,		8	0777	B 726 M	-0		162	
1244				В	PRINT		4	0785	B 538			162	

SEQ PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
1245 12 15		SW	PNTSW	4	0789	• S18	162
1246 12 16		A	'016',XR1	7	0793	A S14 089	162
1246 12 16		Č	XR1, 1281	7	0800	C 089 S17	162
1247 12 17		BU	NOT	5	0807	B 726 /	163
1249 12 19	DAITCVM		1401	1	0812	2	163
1250 12 20	PNTSYM	r CW	PNTSW=1	4	0813) S18	163
		CS	332	4	0817	/ 332	163
1251 12 21		CS	352	1	0821	/ 332	163
1252 12 22		S	XR1+1	4	0822	S 090	163
1253 12 23			*+9,ENDSW	8	0826	V 842 S10 1	163
1254 12 24		BW BCE	·	8	0834	B 888 /D9 '	164
1255 12 25		BCV	TSTEOJ,SORTAB+1+X3,' NXTPGE	5	0842	B 859 1	164
1256 12 26	TOTECH			8	0847	V 726 S10 1	164
1257 12 27	TSTESW		NOT, ENDSW	4	0855	B 656	164
1258 12 28	NXTPGE	B C D D	NXTCTR PGXT+3	4	0859	H 887	164
1259 12 29	NAIPGE			4	0863	/ 332	164
1260 12 30		CS	332	1	0867	1 552	164
1261 12 31		CS	1	2	0868	, F 1	165
1262 12 32		CC MCW	1 CANDOL TADIES 232	7	0870	M \$30 212	165
1263 12 33			'SYMBOL TABLE',212	1	0877	2	165
1264 12 34		W	V		0878	F K	165
1265 12 35		CC	K	2	0880		165
1266 12 36	DOVE	CS	212	4	0884	/ 212 B 000	165
1267 12 37	PGXT	В	XXXX	4	0888	V 898 /80 1	165
1268 12 38	TSTEOJ		*+3,HEADSW	8	0896		
1269 12 39		CC	1	2		F 1 / 332	166 166
1270 12 391		CS	332	4	0898		100
1271 12 392		CHAIN	3	1	0000	MACRO	144
1272		CS		1	0902	/ GEN	166
1273		CS		1	0903	/ GEN	166
1274		CS	FO IOD TTEREN 3	1	0904	/ GEN	166
1275 12 40		BCE	EOJOB, ITERSW, 1	8	0905	B 997 U28 1	166
1276 12 41	*						
1277 12 42	* GET I	PASS C					
1278 12 43	*		CHOTE	-	0012	ii fiil n	1//
1279 12 44		BSP	SYSTPE	5		U (U1 B	166
1280 12 45		BSP	SYSTPE	5	0918	U (U1 B	167
1281 12 46		MCW	151, TPHALT+4	7	0923	M S31 J15	167
1282 12 47		MCW	151, TPHLT2+4	7	0930	M S31 K01	167
1283 12 48		MCW	151, TPHLT3+4	7	0937	M \$31 J42	167
1284 12 49		MCW	1001, PROCSW	7	0944	M S33 L95	167
1285 12 50		MCW	'',SFXCTR	7	0951	M S34 L23	168
1286 12 51	*						
1287 12 52		NUMBER	OF SEEKS FOR TABLE SEARCH				
1288 12 53	*	_			0050	6 1 6 2 1 1 6	1.0
1289 12 54		C	TOTLAB, TABLSZ	7	0958	C L93 L18	168
1290 12 55		MCW	TABLSZ, SERCHS	7	0965	M L18 L99	168
1291 12 56		S	TOTLAB	4	0972	S L93	168
1292 12 57		BE	RDPSSC	5	0976	B K72 S	168
1293 12 58		ВН	RDPSSC	5	0981	B K72 U	168
1294 12 59		MCW	+0009, SERCHS	7	0986	M S38 L99	169

cec	n.c	4 TA:	1 4001	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION	TVDE	CARD
256	PG	LIN	LABEL	UP	UP ERANDS	SFX CI	LUCIN	INSTRUCTION	TIFE	CHILD
1295				8	RDPSSC	4	0993	B K72		169
1296			*	7.750.45	TION OFT DACC F					
1297 1298			* LASI	LIEKA	TION, GET PASS E					
1299			EOJOB	CW	GPMRK2-1	4	0997) U30		169
1300			20000	CS	3999	4	1001	/ 199		169
1301				BCE	READE, MACHSZ, 3	8	1005	B #44 L89 3		169
1302				CS	4799	4	1013	/ 79Z		169
1303		68		CHAIN	7				MACRO	
1304				CS		1	1017	/	GEN	169
1305				CS		1	1018		GEN	170
1306				CS		1	1019		GEN	170
1307 1308				CS		, , , , , , , , , , , , , , , , , , ,	1020 1021	/	GEN GEN	170 170
1309				CS CS		1	1022	,	GEN	170
1310				CS		1	1023	,	GEN	170
1311		681	CLR	CS	3999	4	1024	, 199	UL11	170
1312			U L	SBR	CLR+3	4	1028	H #27		171
1313				C	CLR+3,+SSOP-1	7	1032	C #27 S41		171
1314				BU	CLR	5	1039	B ‡24 /		171
1315	12	69	READE	RTW	SYSTPE, SSCP	8	1044	L (U1 Z00 R		171
1316				BER	SYSERR	5	1052	B ‡68 L		171
1317			GCTCE	MCW	'N',SSOP	7	1057	M S42 Z00		171
1318				В	SSOP+1	4	1064	B Z01		172
1319			SYSERR		+9,RDCT=1	7	1068	M S43 S44		172
1320			DETON	BSP	SYSTPE	5	1075	U (U1 B		172
1321			RETRY	RTW	SYSTPE, SSCP	8 5	1080	L (U1 Z00 R B #97 L		172
1322 1323				BER	AGAIN GOTDE	4	1088 1093	B +57		172 172
1324			AGAIN	B BSP	SYSTPE	5	1097	U (U1 B		172
1325			MOMIN	S	11*,RDCT	7	1102	S S05 S44		173
1326				BWZ	RETRY, RDCT, B	8	1109	V #80 S44 B		173
1327				Н	XXXX,691	7	1117	. 000 691		173
1328				RTW	SYSTPE, SSCP	8	1124	L (U1 Z00 R		173
1329				BSS	SYSERR, E	5		B ‡ 68 E		173
1330				Here	XXXX ₊ 612	7	1137	. 000 612		174
1331				В	GOTOE	4	1144	B ‡57		174
1332			LIST	DCW	* ABCDEFGHI-JKLMNOPQR#/STUVWXYZ)**	32	1179			175
1333			SORTAB		LIST-31		1148	1100		
1334			HEADOM	LTORG		1	1180	1180	AREA	175
	•	1158	HEADSW	DCM	=01 •A•	1	1181		LIT	175
					* Z *	1	1182		LIT	175
					010	3	1185		LIT	175
		1186			'UNREFERENCED LABELS'	19	1204		LIT	176
	•				*1*	1	1205		LIT	176
					1+X1	2	1207		LIT	176
					121	1	1208		LIT	176
					131	1	1209		LIT	176
		1223	ENDSW		=01	1	1210		AREA	176

SEQ PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION	TYPE	CARD
			+1	1	1211		LIT	176
			'016'	3	1214		LIT	177
			1281	3	1217		LIT	177
1250	PNTSW		=01	1	1218		AREA	177
1263			'SYMBOL TABLE'	12	1230		LIT	177
			151	1	1231		LIT	177
			1001	2	1233		LIT	177
			1 1	1	1234		LIT	177
			+0009	4	1238		LIT	178
1313			+SSOP-1	3	1241	Y99	ADCON	178
			*N *	1	1242		LIT	178
			+9	1	1243		LIT	178
1319	RDCT		=01	1	1244		AREA	178
1335 12 89	ENDOVL	DCW	1 1	1	1245			178
1336 12 90		EX	LIBRN			B 000		179
1337 12 91		END	LIBRN			/ 000 080		182

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1401 AUTOCODER-PASS 7-LIST, CONDNS-INITL 1 -VERSION 3

3771L

9	SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYP	E CARD
1	101	1	01	000	JOB	1401 AUTOCODER-PASS 7-LIST, CONDNS-INITL 1 -VERSION	3			
	102		02	000	CTL	630 1				
	103		03	*	0.2					
	104		04		res usi	ED BY PROGRAM				
	105		05	*						
	106	1	06	INITAP	EQU	(U0		(U0		
1	107	1	07	SYSTAP	EQU	(U1		(U1		
1	108	1	80	ORIGTP	EQU	(U4		14		
	109		09	WORKTP		(U5		(U5		
	110			XTRATP		(U6		106		
	111			FIXERM		0		0000		
	112		12	STLABL		FIXFRM+2		0002		
	113		13	STSTMT		FIXFRM+5		0005		
	114		14	COUNT		FIXERM+7		0007		
	115		15	ORGADD		FIXFRM+32		0032		
	116			LABADD		FIXFRM+61		0061		
	117		17	SUPADD		FIXFRM+66		0066		
	118 119		18 19	OP AOP	EQU	FIXFRM+67		0067 0070		
	120		20	BOP	EQU EQU	FIXFRM+70 FIXFRM+73		0070		
	121		21	DMCD	EQU	FIXERM+74		0074		
	122		22	TYPE	EQU	FIXERM+75		0075		
	123		23	ALTER	EQU	FIXFRM+80		0080		
	124		24	XXXX	EQU	0		0000		
	125		25	PRINT	EQU	200		0200		
	126		26	ALT	EQU	PRINT+4		0204		
	127		27	PG	EQU	PRINT+7		0207		
	128		28	LIN	EQU	PRINT+11		0211		
	129		29	LAB	EQU	PRINT+19		0219		
	130			OPCODE		PRINT+25		0225		
1	131	1	31	OPRAND	EQU	PRINT+78		0278		
1	132	1	32	SUFFIX	EQU	PRINT+80		0280		
	133		33	CT	EQU	PRINT+84		0284		
	134	1		LOCN	EQU	PRINT+90		0290		
	135		35	INOP	EQU	PRINT+93		0293		
	136		36	INAOP	EQU	PRINT+97		0297		
	137		37	INBOP	EQU	PRINT+101		0301		
	138		38	INDMOD		PRINT+103		0303		
	139		39	KIND	EQU	PRINT+109		0309		
	140		40	CARDNO		PRINT+114		0314		
	141		41	PUNCH	EQU	100		0100		
	142		42	LIBRN	EQU	0		0000		
	143		43 44	ZONE	EQU EQU	189 89		0189 0089		
	144 145		45	XR1 XR2	EQU	94		0089		
	145 146		46	XR2 XR3	EQU	99		0094		
	140 147		47	*	FAO			0077		
4	. 7 /	Ŧ	71	-						

152 1 52	SEQ	PG LIN	LABEL OP	OPERANDS	:	SFX CT	LOCN	INSTRUCTION TYPE	CARD
149	148	1 48	* INITIAL	IZATION ROUTINE					
150									
152			OR	G 1900				1900	
154 1 54 CS	151	1 51	SSOP DC	W *B*		1	1900		4
154	152	1 52	CS	332		4		/ 332	4
155	153	1 53				1			4
156						1		/	4
157						·-			4
158									4
163						-			4
163									5 5 5 5
163						•			ָר ב
163						4) E
163						7			5
164						-			5
165						•			6
166 1 66 RWD ORIGTP 167 1 67 RWD WORKTP 168 1 68 RWD XTRATP 169 1 69 SW PUNCH+72,PUNCH+76 170 1 70 A +1,PUNCH+75 171 1 71 B READ4 172 1 72 ** 173 * CHECK FOR JOB CARD 174 1 74 ** 175 1 75 C MNEMON-2,*JCB' 7 2001 C H48 099 176 1 76 BU CKCTL 5 2008 B -78 / 177 1 77 CW JOBSW=1 4 2013) P00 178 1 78 RT WORKTP,180 8 2017 M (U5 180 R R R R R WORKTP,180 8 2017 M (U5 180 R R R R R R WORKTP,180 8 2017 M (U5 180 R R R R R R R R R R R R R R R R R R R						•			6
167 1 67									6
168 1 68									6
169									6
170 1 70									6
171 1 71						7			7
172 1 72 * 173 1 73 * CHECK FOR JOB CARD 174 1 74 * 175 1 75						4			7
174 1 74 * 175 1 75			*						
175 1 75	173	1 73	* CHECK F	DR JOB CARD					
176 1 76	174	1 74	*						
177 1 77	175	1 75	С	MNEMON-2, JOB'		7			7
178									7
179 1 79									7
180						8			7
182						7			8
182						<i>(</i>			8 8
183									8
184 1 84 MCW LINENO, JOBLIN=3 7 2060 M H35 P09 185 1 85 MCW LABEL, JOBLAB=6 7 2067 M H41 P15 186 1 86 B READ4 4 2074 B T15 187 1 87 * 188 1 88 * CHECK FOR CONTROL CARD 189 1 89 * 190 1 90 CKCTL C MNEMON-2, 'CTL' 7 2078 C H48 P18 191 1 91 BU TSTSIZ 5 2085 B 407 / 192 1 92 CW CTLSW=1 4 2090) P19 193 1 93 MCW IMAGE+30, CTLSAV=10 7 2094 M H60 P29 1						7			8
185						7			8 9
186 1 86						7			ģ
187 1 87 * 188 1 88 * CHECK FOR CONTROL CARD 189 1 89 * 190 1 90 CKCTL C MNEMON-2, CTL' 7 2078 C H48 P18 191 1 91 BU TSTSIZ 5 2085 B 407 / 192 1 92 CW CTLSW=1 4 2090) P19 193 1 93 MCW IMAGE+30, CTLSAV=10 7 2094 M H60 P29 1						•			ģ
188			_	NEMOT		•	20.		
189				OR CONTROL CARD					
190									
191 1 91 BU TSTSIZ 5 2085 B 407 / 192 1 92 CW CTLSW=1 4 2090) P19 193 1 93 MCW IMAGE+30,CTLSAV=10 7 2094 M H60 P29 1				MNEMON-2, CTL		7	2078	C H48 P18	9
192						5			9
193 1 93 MCW IMAGE+30,CTLSAV=10 7 2094 M H60 P29 1						4			9
						7	2094	M H60 P29	10
						7	2101	M I14 P33	10
195 1 95 MCW PAGENO, CTLPAG=2 7 2108 M H32 P35 1	195	1 95	MC	W PAGENO, CTLPAG=2		7	2108	M H32 P35	10
·			MC			7			10
197 1 97 B READ4 4 2122 B T15 1	197	1 97	В	READ4		4	2122	B T15	10

SEQ	PG LIN	LABEL	OP.	OPERANDS		SFX CT	LOCN	INSTRUCTION TYPE	CARD
198	1 98	*							
199	1 99	* TEST	OUTPU	T OPTION DESIRED					
200	2 00	#							
201	2 01	CHKOP	BCE	OPNTAP, LSTAPE, 1		8	2126	B K14 P24 1	11
202	2 02	TSTOP	BCE	TSTSIZ, OUTOPN, O		8	2134	B 407 P22 0	11
203	2 03	-	BCE	CONDOP, OUTOPN, 1		8	2142	B 400 P22 1	11
204	2 04		BCE	TSTSIZ,OUTOPN,2		8	2150	B 407 P22 2	11
205	2 05		BCE	CONDOP, OUTOPN, 3		8	2158	B 400 P22 3	12
206	2 06		BCE	TSTSIZ,OUTOPN,4		8	2166	B 407 P22 4	12
207	2 07		BCE	CONDOP, OUTOPN, 5		8	2174	B 400 P22 5	12
208	2 08		BCE	TSTSIZ, OUTOPN, 6		8	2182	B 407 P22 6	12
209	2 09		BCE	CONDOP, OUTOPN, 7		8	2190	B 400 P22 7	13
210	2 10		BCE	TSTSIZ, OUTOPN,		8	2198	B 407 P22	13
211	2 11		CW	CTLSW1=1		4	2206) P39	13
212	2 12		В	TSTSIZ		4	2210	B 407	13
213	2 13	OPNTAP		TAPOP1		4	2214) 092	13
214	2 14		В	TSTOP		4	2218	B J34	13
215	2 15	*		T MAZU 0000011					
216	2 16		P + GE	T MAIN PROGRAM					
217	2 17	*	0.00	001070		_	2222	11 8110 13	• •
218	2 18	GETMAN		ORIGTP) 7	2222	U (U4 B	13
219	2 19		SW	FIXFRM+1,FIXFRM+6		7	2227	, 001 006	14
220	2 20		SW	FIXFRM+8,FIXFRM+14		(2234	, 008 014	14
221	2 21		SW	FIXFRM+23,FIXFRM+57		7	2241	, 023 057	14
222	2 22		SW	FIXFRM+62, FIXFRM+67		7	2248	, 062 067	14
223	2 23		SW	FIXFRM+68, FIXFRM+71		7	2255	, 068 071	14
224	2 24		SW	FIXFRM+74		4	2262	, 074	14
225	2 25		CW	181,333		7	2266) 181 333	15
226	2 26		MCW	KBLK1, HOLDA1-1	DIMCH - 71	7	2273	M 027 023	15
227	2 27 2 28		LCA	'LO , , , 1 ', '2SKB',ZONE	PUNCH+71	7	2280 2287	L P71 171 L P75 189	15
228 229	2 29		LCA			7	2294	L P80 101	15 15
230	2 30		LCA LCA	'00000',XR3+2 XR3+2		4	2301	L 101	15 15
231	2 31		LCA	ANJTZ		1	2305	L	16
232				GRPMK3		4	2306	, 095	
233	2 32 2 33		SW BCE	SETOUT, CNDSW1,1		ą Ω	2310	B L49 033 1	16 16
234	2 34		BW	*+5,LSTOP1		g g	2318	V L30 093 1	16
235	2 35		8	SETOUT		4	2326	B L49	16
236	2 36		BW	*+5,TAPOP1		8	2330	V L42 092 1	16
237	2 37		8	SETOUT		4	2338	B L49	16
238	2 38		MCW	11,000UT1		7	2342	M P81 094	17
239	2 39	SETOUT		OUTOPN,OPNSV1		7	2349	M P22 090	17
240	2 40	321001	WTW	XTRATP, SAVCN1		. 8	2356	L (U6 D21 W	17
241	2 41		NOP	XXXX		4	2364	N 000	17
242	2 42		BER	TPERRI		5	2368	B M03 L	17
243	2 43		RWD	XTRATP		5	2373	U (U6 R	17
244	2 44		CW	GRPMK3		4	2378) 095	18
245	2 45		RTW	SYSTAP, 201		8	2382	L (U1 201 R	18
246	2 46		NOP	XXXX		4	2390	N 000	18
247	2 47		BER	TPERRI		5	2394	B M03 L	18
- T 1	T		- · · ·	T T NoTTED BY		_		- 119 - W	40

SEQ	PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
248	2 48	_	В	INIT2	4	2399	B 201	18
249	2 49	# " TADE	DEDUM	DAMEY DOUTING				
250	2 50		KEDUN	DANCY ROUTINE				
251 252	2 51 2 52	* TPERRI	CDD	XR2	4	2403	H 094	18
252	2 53	IFERNI	SBR	REDXI+3	4	2407	H M75	18
254	2 54		MZ	+9, XR2	7	2411	Y P82 094	19
255	2 55		MCW	4000-10+X2, TPINSI+7	7	2418	M IRO M66	19
256	2 56		MN	TPINSI+3, ESPI+3	7	2425	D M62 M42	19
257	2 57		MCW	TPINSI+7, INST2I+7	7	2432	M M66 N75	19
258	2 58	BSPI	BSP	INITAP	5	2439	U (UO B	19
259	2 59		BCE	WRTRDI, TPINSI+7, W	8	2444	B N48 M66 W	20
260	2 60		MCW	+9,READCI=1	7	2452	M P82 P83	20
261	2 61	TPINSI		INITAP,XXXX	8	2459	M (UO 000 R	20
262	2 62		BER	RDRERI	5	2467	B M76 L	20
263	2 63	REDXI	В	XXXX	4	2472	В 000	20
264	2 64	RDRERI	MN	TPINSI+3,BSP2I+3	7	2476	D M62 M86	20
265	2 65	BSP2I	BSP	INITAP	5	2483	U (UO B	21
266	2 66		S	+1,READCI	7	2488	S 096 P83	21
267	2 67		BWZ	TPINSI, READCI, B	8	2495	V M59 P83 B	21
268	2 68		MN	TPINSI+3, TPHALI+6	7	2503	D M62 N16	21
269	2 69	TPHALI	Н	XXXX,790	7	2510	. 000 790	21
270	2 70		MCW	TPINSI+7,*+8	7	2517	M M66 N31	22
271	2 71		RT	INITAP,XXXX	8	2524	M (UO 000 R	22
272	2 72		BSS	BSPI,E	5	2532	B M39 E	22
273	2 73		Н	XXXX,711	7	2537	. 000 711	22
274	2 74		В	REDXI	4	2544	B M72	22
275	2 75	WRTRDI		SYSTAP	5	2548	U (U1 E	22
276	2 76		BCE	SUBCTI, WRTCTI-1,5	8	2553	B N85 P84 5	23
277	2 77		A	+1, WRTCTI=2	7	2561	A 096 P85	23
278	2 78	INST2I		INITAP,XXXX	8	2568	M (UO 000 W	23
279	2 79		BER	BSPI	5	2576	B M39 L	23
280	2 80	CHOCTT	В	REDXI	4	2581 2585	B M72 S P85	23 23
281	2 81	SUBCTI		WRTCTI	4 7		D M62 D02	24
282	2 82		MN	TPINSI+3,*+7	7	2596	• 000 760	24
283	2 83 2 84		H B	INST2I	4	2603	B N68	24
284		CLRLEG		*CLEAR STORAGE *	14	2620	8 1100	24
285 286	2 85 2 86	HOLDAI		+0000	4	2624		24
287	2 87	KBLK1		10801	3	2627		24
288	2 88	CORSIZ		* 3999*	5	2632		25
289	2 89	CNDSW1		101	í	2633		25
290	2 90	JOBSAV		=52	52	2685		27
291	2 91	ERRCT1		100001	4	2689		27
292	2 92	OPNSV1		1 1	i	2690		27
293	2 93	SSAVEI		1 1	ī	2691		27
294	2 94	TAPOP1		1 1	ī	2692		27
295	2 95	LSTOP1		1 1	ī	2693		28
296	2 96	NOOUT1		1 1	1	2694		28
297	2 97	GRPMK3		1 1	1	2695		28
		 						

298 2 98	SEQ	PG	LIN	LABEL	OP	OPERANDS					SF	CT	LOCN	INSTRUCTION	TYPE	CARD
DCM				SAVCN1									2621	24.04		
177 JDBS	299	2	99									•	2404	2070	1 TT	20
177 JORSW					DCM							7				
182			, , , ,	10001						:		3				
183 JOBPAG =02 2 2706 AREA 28 184 JOBLIN =03 3 2709 AREA 29 185 JOBLAB =06 (CTL' 3 2715 AREA 29 192 CTLSW =01 1 2719 AREA 29 193 CTLSW =10 10 2729 AREA 29 194 CTLALT =04 4 2733 AREA 29 195 CTLPAG =02 2 2735 AREA 29 195 CTLPAG =02 2 2735 AREA 29 195 CTLPAG =02 2 2735 AREA 29 195 CTLPAG =01 3 2738 AREA 29 195 CTLPAG =01 3 2738 AREA 29 195 CTLPAG =01 3 2739 AREA 30 211 CTLSW1 =01 3 2 2771 LIT 30 32 2771 LIT 30 32 2771 LIT 30 32 2771 LIT 30 32 2771 LIT 30 30 30 CTLPAG =01 3 2738 AREA 30 LIT 31 49 3 2778 LIT 31 31 30 30 0 0 0 0 0 0 0												L				
184															manager of the contract of the	
185																
CTLSW											**	A RESERVE OF THE RESERVE OF				
192 CTLSW =01			185	JUBLAB												
193 CTLSAV =10			100	CTLCU												
194 CILALT																
195 CTLPAG =02																
196 CTLLIN =03														•		
211 CTLSW1																
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125KB 4 2775				CITOMI					1							
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1 2781			220													
+9 1 2782 LIT 31 260 READCI =01 1 2783 AREA 31 277 WRTCTI =02 2 2785 AREA 31 300 3 00 ORG 3831 301 INPUT4 DA 1X86 3831 3916 31 301 3 01 INPUT4 DA 1X86 3831 3916 31 302 3 02 PAGENO 1,2 3832 FIELD 32 303 3 03 LINENO 3,5 3835 FIELD 32 304 3 04 LABEL 6,11 32 305 3 05 MNEMON 16,20 3850 FIELD 32 306 3 06 OPERND 21,72 3902 FIELD 32 307 3 07 ALTNO 81,84 3914 FIELD 32 307 3 07 ALTNO 81,84 3914 FIELD 32 308 3 08 IMAGE EQU INPUT4-1 3830 309 3 09 FIXINP EQU IMAGE+87+X3 3917 X 310 3 10 INPUT5 EQU FIXINP+1+X0 3918 311 3 11 PROSIZ EQU CTLSAV-9 2720 312 3 12 OBJSIZ EQU CTLSAV-7 2722 314 3 14 LSTAPE EQU CTLSAV-7			227													
260 READCI =01 2783 AREA 31 2787 WRTCTI =02 2785 AREA 31 300 3 00 ORG 3831 3831 3831 3916 31 301 INPUT4 DA 1X86 3831 3916 31 3916 32 302 PAGENO 1,2 3832 FIELD 32 303 3 03 LINENO 3,5 3 05 MNEMON 16,20 3850 FIELD 32 305 305 MNEMON 16,20 3850 FIELD 32 306 3 06 OPERND 21,72 3902 FIELD 32 307 3 07 ALTNO 81,84 3914 FIELD 32 308 3 08 IMAGE EQU IMAGE+87+X3 3917 X 3918 310 INPUT5 EQU FIXINP+1+X0 3918 311 3 11 PROSIZ EQU CTLSAV-9 2720 312 313 3 13 OUTOPN EQU CTLSAV-7 2722 314 3 14 LSTAPE EQU CTLSAV-7 2722 314 3 14 LSTAPE EQU CTLSAV-5 2724 316 316 CTLSAV-5																
277 WRTCTI			260	READCI												
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301 3 01 INPUT4 DA 1X86 3831 3916 31 302 3 02 PAGENO 1,2 3832 FIELD 32 303 3 03 LINENO 3,5 3835 FIELD 32 304 3 04 LABEL 6,11 3841 FIELD 32 305 3 05 MNEMON 16,20 3850 FIELD 32 306 3 06 OPERND 21,72 3902 FIELD 32 307 3 07 ALTNO 81,84 3914 FIELD 32 308 3 08 IMAGE EQU INPUT4-1 3830 309 3 09 FIXINP EQU IMAGE+87+X3 3917 X 310 3 10 INPUT5 EQU FIXINP+1+X0 3918 311 3 11 PROSIZ EQU CTLSAV-9 2720 312 3 12 OBJSIZ EQU CTLSAV-7 2721 313 3 13 OUTOPN EQU CTLSAV-7 2722 314 3 14 LSTAPE EQU CTLSAV-5	300	3		MILLOTT	ORG							-		3831		
302 3 02 PAGENO 1,2 3832 FIELD 32 303 3 03 LINENO 3,5 3835 FIELD 32 304 3 04 LABEL 6,11 3841 FIELD 32 305 3 05 MNEMON 16,20 3850 FIELD 32 306 3 06 OPERND 21,72 3902 FIELD 32 307 3 07 ALTNO 81,84 3914 FIELD 32 308 3 08 IMAGE EQU INPUT4-1 3830 309 3 09 FIXINP EQU IMAGE+87+X3 3917 X 310 3 10 INPUT5 EQU FIXINP+1+X0 3918 311 3 11 PROSIZ EQU CTLSAV-9 2720 312 3 12 OBJSIZ EQU CTLSAV-8 2721 313 3 13 OUTOPN EQU CTLSAV-7 2722 314 3 14 LSTAPE EQU CTLSAV-5				INPUT4									3831			31
303 3 03 LINEND 3,5 304 3 04 LABEL 6,11 3841 FIELD 32 305 3 05 MNEMON 16,20 3850 FIELD 32 306 3 06 OPERND 21,72 3902 FIELD 32 307 3 07 ALTNO 81,84 3914 FIELD 32 308 3 08 IMAGE EQU INPUT4-1 3830 309 3 09 FIXINP EQU IMAGE+87+X3 3917 X 310 3 10 INPUT5 EQU FIXINP+1+X0 3918 311 3 11 PROSIZ EQU CTLSAV-9 2720 312 3 12 OBJSIZ EQU CTLSAV-8 2721 313 3 13 OUTOPN EQU CTLSAV-7 2722 314 3 14 LSTAPE EQU CTLSAV-5					• , .										FIELD	
304 3 04 LABEL 6,11 3841 FIELD 32 305 3 05 MNEMON 16,20 3850 FIELD 32 306 3 06 OPERND 21,72 3902 FIELD 32 307 3 07 ALTNO 81,84 3914 FIELD 32 308 3 08 IMAGE EQU INPUT4-1 3830 309 3 09 FIXINP EQU IMAGE+87+X3 3917 X 310 3 10 INPUT5 EQU FIXINP+1+X0 3918 311 3 11 PROSIZ EQU CTLSAV-9 2720 312 3 12 OBJSIZ EQU CTLSAV-8 2721 313 3 13 OUTOPN EQU CTLSAV-7 2722 314 3 14 LSTAPE EQU CTLSAV-5																
305 3 05 MNEMON 16,20 3850 FIELD 32 306 3 06 OPERND 21,72 3902 FIELD 32 307 3 07 ALTNO 81,84 3914 FIELD 32 308 3 08 IMAGE EQU INPUT4-1 3830 309 3 09 FIXINP EQU IMAGE+87+X3 3917 X 310 3 10 INPUT5 EQU FIXINP+1+X0 3918 311 3 11 PROSIZ EQU CTLSAV-9 2720 312 3 12 OBJSIZ EQU CTLSAV-8 2721 313 3 13 OUTOPN EQU CTLSAV-7 2722 314 3 14 LSTAPE EQU CTLSAV-5																
306 3 06																
307 3 07 ALTNO 81,84 308 3 08 IMAGE EQU INPUT4-1 309 3 09 FIXINP EQU IMAGE+87+X3 310 3 10 INPUT5 EQU FIXINP+1+X0 311 3 11 PROSIZ EQU CTLSAV-9 312 3 12 OBJSIZ EQU CTLSAV-8 313 3 13 OUTOPN EQU CTLSAV-7 314 3 14 LSTAPE EQU CTLSAV-5																
308 3 08 IMAGE EQU INPUT4-1 309 3 09 FIXINP EQU IMAGE+87+X3 310 3 10 INPUT5 EQU FIXINP+1+X0 311 3 11 PROSIZ EQU CTLSAV-9 312 3 12 OBJSIZ EQU CTLSAV-8 313 3 13 OUTOPN EQU CTLSAV-7 314 3 14 LSTAPE EQU CTLSAV-5 3830 3917 X 3918 2720 2722 2722 2724																
309 3 09 FIXINP EQU IMAGE+87+X3 310 3 10 INPUT5 EQU FIXINP+1+X0 311 3 11 PROSIZ EQU CTLSAV-9 312 3 12 OBJSIZ EQU CTLSAV-8 313 3 13 OUTOPN EQU CTLSAV-7 314 3 14 LSTAPE EQU CTLSAV-5 317 3 09 FIXINP EQU IMAGE+87+X3 318 3 10 INPUT5 EQU CTLSAV-9 319 3918 3918 3918 3918 3918 3918 3918 3					EQU											
310 3 10 INPUT5 EQU FIXINP+1+X0 311 3 11 PROSIZ EQU CTLSAV-9 312 3 12 OBJSIZ EQU CTLSAV-8 313 3 13 OUTOPN EQU CTLSAV-7 314 3 14 LSTAPE EQU CTLSAV-5 319 3918 2720 2721 2722 2724														X		
311 3 11 PROSIZ EQU CTLSAV-9 2720 312 3 12 OBJSIZ EQU CTLSAV-8 2721 313 3 13 OUTOPN EQU CTLSAV-7 2722 314 3 14 LSTAPE EQU CTLSAV-5 2724																
312 3 12 OBJSIZ EQU CTLSAV-8 313 3 13 OUTOPN EQU CTLSAV-7 314 3 14 LSTAPE EQU CTLSAV-5 2721 2722 2724													2720			
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314 3 14 LSTAPE EQU CTLSAV-5 2724													2722			
						CTLSAV-5										
	315	3	15	ENDIN	EQU	3998							3998			
316 3 16 3998 DCW '' 1 3998 33	316	3	16	3998	DCW	1 1						1	3998			
317 3 17 XFR LIBRN B 000 34	317	3	17		XFR	LIBRN								B 000		34

SEQ	PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
318	3 18		JOB	1401 AUTOCOCER-PASS 7 LIST, CONDNS-INITL 2 -VERSION	3		0.400	
319	3 19		ORG	400			0400	
320	3 20	*						
321	3 21	* COND	ENSE O	PTION				
322	3 22	*		414 (2)20(1)	~	0/00	H T// 022	27
323	3 23	CONDOP	MLW	'1',CNDSW1	7	0400	M T64 033	37
324	3 24	*	00.156	T MACUTAIC CT2C				
325	3 25		ORIFC	T MACHINE SIZE				
326	3 26	*	0 C C	SENSW, F	5	0407	B /03 F	37
327	3 27	TSTSIZ			8	0412	V 422 093 1	37
328 329	3 28 3 29		BW CC	#+3,LSTOP1 1	2	0420	F 1	37
330	3 30		MCW	11, PRINT+15	7	0422	M T64 215	37
331	3 31		MCW	CLRLEG	4	0429	M 020	37
332	3 32		MCW	*1*,200	ż	0433	M T64 200	38
333	3 33		BW	IS4K,CTLSW	8	0440	V 544 P19 1	38
334	3 34		C C	OBJSIZ, 131	7	0448	C P21 T65	38
335	3 35		BL	OVER4K	5	0455	B 464 T	38
336	3 36		В	IS4K	4	0460	B 544	38
337	3 37	OVER4K		OBJSIZ, 161	7	0464	C P21 T66	38
338	3 38		BL	BADCTL	5	0471	B 540 T	39
339	3 39		MCW	',053053N000000N00001026',PUNCH+52	7	0476	M T89 152	39
340	3 40		LCA	1,008015,022026,030037,044,0491	4	0483	L U18	39
341	3 41		MCW	PUNCH+52, PRINT+72	7	0487	M 152 272	39
342	3 42		В	PRTPNH	4	0494	B S17	39
343	3 43		MCW	*1,001/001117I0+*,PUNCH+71	7	0498	M U33 171	39
344	3 44		MCW	*=071029C029056B026/B001/099*	4	0505	M U60	39
345	3 45		LCA	L068116,105106,1101178101/191	4	0509	L U89	40
346	3 46		BCE	IS8K,OBJSIZ,4	8	0513	B 651 P21 4	40
347	3 47		BCE	IS12K,OBJSIZ,5	8	0521	B 669 P21 5	40
348	3 48		MCW	151, CORSIZ-3	7	0529	M U91 029	40
349	3 49		В	CLRST2	4	0536	B 683	40
350	3 50	BADCTL		CTLSW1	4	0540) P39	40
351	3 51	IS4K	MCW	',0570571026',PUNCH+44	7	0544	M V02 144	41
352	3 52		LCA	1,008015,019026,030,034041,045,053	4		L V35	41
353	3 53		MCW	PUNCH+44, PRINT+64	7	0555	M 144 264	41
354	3 54		В	PRTPNH	4	0562	B S17	41
355	3 55		MCW	'B0010270B0261,001/001113I0',PUNCH+70	7	0566	M V61 170	41
356	3 56		LCA	L068112,102106,113/101099/199,027A070028)027	4	0573	L W05	41
357	3 57		BCE	CLRST2,0BJSIZ,3	8	0577	B 683 P21 3 Y W06 127	42
358	3 58		MZ	'S', PUNCH+27	7	0585 0592	M T64 029	42 42
359	3 59		MCW	'1',CORSIZ-3	7	0592	B 683 P21 2	42
360	3 60		BCE	CLRST2,0BJSIZ,2	8 7	0607	M W07 127	42
361 362	3 61 3 62		MCW MCW	'T',PUNCH+27 '3',CORSIZ-2	7	0614	M T65 030	43
363	3 63		BCE	CLRST2, OBJSIZ, 1	8	0621	B 683 P21 1	43
364	3 64		CM	CTLSW1	4	0629) P39	43
365	3 65		MCW	*I *, PUNCH+27	7	0633	M W08 127	43
366	3 66		MCW	*39*,CDRSIZ-2	7	0640	M W10 030	43
367	3 67		В	CLRST2	4	0647	В 683	43
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417 4 17

В

PRINT2

1401 AUTOCODER-PASS 7 LIST, CONDNS-INITL 2 -VERSION 3

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
418		18		BW	TSTCTL, JOBSW	8	0905	V 970 P00 1	51
419		19		MCS	JOBALT, ALT	7	0913	Z P04 204	51
		20		MCS	JOBPAG, PG	7	0920	Z P06 207	51
420						7	0927	Y P06 207	51
421		21		MZ	JOBPAG, PG	7	0934	M P09 211	51
422		22		MCW	JOBLIN, LIN	7	0934	M P15 219	52
423		23		MCW	JOBLAB, LAB	7	0948	M X61 223	52 52
424		24		MCW	*JOB*, OPCODE-2	7	0955	M 085 278	52
425		25		MCW	JOBSAV, OPRAND PRINT2	4	0962	B \$61	52
426		26		В		4	0966	/ 278	52 52
427		27	TSTCTL	S S	OPRAND	8	0970	V \$50 P19 1	52
428		28	ISICIL		NOCNTL, CTLSW	7	0978	Z P33 204	53
429		29		MCS MCS	CTLALT, ALT	7	0985	Z P35 207	53
430		30			CTLPAG,PG CTLPAG,PG	7	0992	Y P35 207	53
431 432		31		MZ MCW	·	7	0999	M P38 211	53
		32 33		MCW	CTLLIN, LIN	7	1006	M P29 236	53
433					CTLSAV, PRINT+36	7	1013	M X64 223	54
434		34		MCW	*CTL*,OPCODE-2	8	1020	V #42 P39 1	54
435 436		35 36		BW MCW	CTLPNT, CTLSW1 'BAD STATEMENT', PRINT+128	7	1028	M X77 328	54
		37	ERRCTL		+1,ERRCT1	7	1025	A X78 089	54
437		38			PRINT2	4	1042	B #61	54
438		39	CTLPNT	В	GETMAN	4	1046	B K22	54
439 440		40	NOCNTL		'NO CONTROL CARD', PRINT+130	7	1050	M X93 330	55 55
441		41	NUCNIE	B	ERRCTL	4	1057	B +35	5 5
442		42	PRINT2		PNT2XT+3	4	1061	H /02	55
443		43	FRINT2	BW	*+2,LSTOP1	8	1065	V +74 093 1	55
444		44		W	**Z#E31011	1	1073	2	55
445		45		BW	PNT2XT,TAPOP1	8	1074	V +99 092 1	55
446		46		WT	3,200	8	1082	M (U3 200 W	56
447		47		NOP	XXXX	4	1090	N 000	56
448		48		BER	TPERRI	5	1094	8 M03 L	56
449		49	PNT2XT		XXXX	4	1099	B 000	56
450		50	#	U		•			
451		51		SENSE	SWITCHES FOR OUTPUT OPTIONS				
452		52	*	J = 11J =	JW110/165 1 5/1 5011 5/1 15/15				
453		53	SENSW	LCA	'O',OUTOPN	7.	1103	L W89 P22	56
454		54	32.134	LCA	'0',CNDSW1	7	1110	L W89 033	56
455		55		MCW	¹¹,LSTAPE	7	1117	M X94 P24	57
456		56		SW	TAPOP1	4	1124	, 092	57
457		57		BSS	ADD1,8	5	1128	B /68 B	57
458		58	TSTSSC		ADD2,C	5	1133	B /79 C	57
459		59	TSTSSG		ADD4,G	5	1138	B /90 G	57
460		60	TSTSSD		LSTAP, D	5	1143	B S01 D	57
461		61	TSTSSE		SUPLST, E	5	1148	B S09 E	57
462		62	SSXT	CW	OUTOPN	4	1153) P22	58
463		63		MCW	'N',TSTSIZ	7	1157	M X95 407	58
464		64		В	СНКОР	4	1164	B J26	58
465		65	ADD1	A	+1,OUTOPN	7	1168	A X78 P22	58
466		66		В	TSTSSC	4	1175	B /33	58
467		67	ADD2	A	+2,OUTOPN	7	1179	A X96 P22	58
			1999 4 7 7						

SEQ	PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION	TYPE	CARD
468	4 68		В	TSTSSG	4	1186	B /38		58
469	4 69	ADD4	A	+4,OUTOPN	7	1190	A X97 P22		59
470	4 70	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	В	TSTSSD	 4	1197	B /43		59
471	4 71	LSTAP	CW	TAPOP1	4	1201) 092		59
472	4 72	201111	B	TSTSSE	4	1205	B /48		59
473	4 73	SUPLST	_	LSTOP1	4	1209	, 093		59
474	4 74		В	SSXT	4	1213	B /53		59
475	4 75	*	Ū				_ ,		
476	4 76		T AND/	OR PUNCH					
477	4 77	#							
478	4 78	PRTPNH	SBR	EXIT+3	4	1217	H T14		59
479	4 79		MCS	PUNCH+75, CARDNO	7	1221	2 175 314		60
480	4 80		BW	*+2,LSTOP1	8	1228	V S37 093 1		60
481	4 81		W	•••••	1	1236	2		60
482	4 82		BW	PUNCH1, TAPOP1	8	1237	V \$86 092 1		60
483	4 83		WT	3,200	8	1245	M (U3 200 W		60
484	4 84		NOP	XXXX	4	1253	N 000		60
485	4 85		BER	TPERRI	5	1257	B M03 L		61
486	4 86		MCW	1+1,100	7	1262	M X98 100		61
487	4 87		WT	3,100	8	1269	M (U3 100 W		61
488	4 88		NOP	XXXX	4	1277	N 000		61
489	4 89		BER	TPERRI	5	1281	B M03 L		61
490	4 90	PUNCH1		*+2,CNDSW1,0	8	1286	B S95 033 0		61
491	4 91	1 0110171	P	2,2,0,000,12,0	ĭ	1294	4		61
492	4 92		Δ	+1,PUNCH+75	7	1295	A X78 175		62
493	4 93		Ĉs	PRINT+132	4	1302	/ 332		62
494	4 94		CS	1 11211, 1 2 3 2	1	1306	1		62
495	4 95		CS	PUNCH+71	4	1307	/ 171		62
496	4 96	EXIT	В	XXXX	4	1311	B 000		62
497	4 97	*	•		-				
498	4 98		ORIGI	NAL TAPE					
499	4 99	*		7.11					
500	5 00	READ4	SBR	READ4X+3	4	1315	H T39		62
501	5 01	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	RT	ORIGTP, INPUT4	8	1319	M (U4 H31 R		62
502	5 02		В	CHKLG			B T40		63
503	5 03		BER	TPERRI	5	1331	B M03 L		63
504	5 04	READ4X		XXXX	4	1336	B 000		63
505	5 05	CHKLG	BCE	READ4+4, INPUT4+12,	8	1340	B T19 H43		63
506	5 06		CHAIN					MACRO	
507			BCE		1	1348		GEN	63
508			BCE		1	1349	В	GEN	63
509			BCE		1	1350	В	GEN	63
510			BCE		ī	1351	8	GEN	64
511			BCE		1	1352		GEN	64
512			BCE		ī	1353	В	GEN	64
513			BCE		ī	1354		GEN	64
514			BCE		ī	1355		GEN	64
515			BCE		1	1356		GEN	64
516			BCE		1	1357	В	GEN	64
517			BCE		ī	1358	В	GEN	65

B 000

82

522 5 10

XFR

LIBRN

SEQ	PG	LIN	LABEL	OP	OPERANDS		SFX CT	LOČN	INSTRUCTION TYPE	CARD
523	5	11		JOB	1401 AUTOCODER-PASS 7 PROCESS EX/END	-VERSION	3			
524	5	12		ORG	ISIOCS				0794	
525	5	13	*							
526	5	14	* EX,	END CA	RDS					
527	5	15	*							
528	5	16	EXEND	MCW	'B', INOP		7	0794	M D12 293	85
529	5	17		MCW	*B*,HOLDH+1		7	0801	M D12 D93	85
530	5	18		BCE	SETAOP, TYPE, C		8	0808	B 830 075 C	85
531	5	19		MCW	'/ 080',INBOP		7	0816	M D21 301	85
532	5	20		MCW	*/ 080*,HOLDH+7		7	0823	M D28 D99	85
533	5	21	SETAOP	MCW	AOP, INAOP		7	0830	M 070 297	86
534	5	22		MCW	AOP, HOLDH+4		7	0837	M 070 D96	86
535	5	23		BCE	SYMUND, AOP, =		8	0844	B L09 070 =	86
536	5	24		В	SETLOC		4	0852	B U18	86
537	5	25		В	CONDNS		4	0856	B L54	86
538	5	26		В	PRNTLN		4	0860	8 Y54	86
539	5	27		BCE	GETOV1, TYPE, C		8	0864	8 Z63 075 C	87
540	5	28		CC	1		2	0872	F 1	87
541	5	29		MCW	11,200		7	0874	M D29 200	87
542	5	30		MCS	ERRCNT, PRINT+4		7	0881	Z C66 204	87
543	5	31		C	PRINT+4,BLANK4=4		7	0888	C 204 D33	87
544	5	32		BU	SETERH		5	0895	8 945 /	87
545	5	33	TSTCOR	BW	EOJOB, ADDRSW=1		8	0900	V 928 D34 1	88
546	5	34		MCW	WORD1, PRINT+20		7	0908	M S49 220	88
547	5	35		В	WTAPE		4	0915	B J24	88
548	5	36		BW	*+2,LSTOP		8	0919	V 928 C70 1	88
549	5	37		W			1	0927	2	88
550	5	38	EOJOB	BW	RESET, TAPOP		8	0928	V 543 C69 1	88
551	5	39		WTM	3		5	0936	U (U3 M	89
552	5	40		В	RESET		4	0941	B 543	89
553	5	41	SETERH	MCW	'ERRORS', PRINT+11		7	0945	M D40 211	89
554	5	42		C	PRINT+4, 1 1 1 1 1 1		7	0952	C 204 D44	89
555	5	43		BU	*+8		5	0959	B 971 /	89
556	5	44		MCW	BLANK1, PRINT+11		7	0964	M D30 211	89
557	5	45		В	WTAPE		4	0971	B J24	89
558	5	4.6		BW.	*+2,LSTOP		8	0975	V 984 C70 1	90
559	5	47		W			1	0983	2	90
560	5	48		CS	PRINT+11		4	0984	/ 211	90
561	5	49		В	TSTCOR		4	0988	B 900	90
562	5	50	*							
563	5	51	* COND	ENSE E	X, END CARDS					
564		52	#							
565	5	53	NOCARD	С	WMLOC, AWMSTR		7	0992	C C75 C78	90
566		54		BE	TSTEND		5	0999	B ‡20 S	90
567		55		CW	NEWSW		4	1004) G27	90
568		56	ENDRTN	BW	NOCARD, NEWSW		8	1008	V 992 G27 1	91
569		57		В	PNCHCD		4	1016	B P62	91
570		58	TSTEND		EXCUTE, TYPE, C		8	1020	B #57 075 C	91
571		59		CS	PUNCH+71		4	1028	/ 171	91
572	5	60		MCW	HOLDH+7, PUNCH+46		7	1032	M D99 146	91

SEQ	PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
573	5 61		MCS	PUNCH+75+CARDNO	7	1039	Z 175 314	91
574	5 62		SBR	PNHXT+3,LSTCD	7	1046	H Q90 S11	92
575	5 63		8	TSTPCH	4	1053	B Q21	92
576	5 64	EXCUTE		WMSTR, PUNCH+71	7	1057	E D11 171	92
577 570	5 65		MCW	*N000000*, PUNCH+46	7 7	1064 1071	M D51 146 M D96 171	92 92
578 579	5 66 5 67		MCW MCS	HOLDH+4,PUNCH+71 PUNCH+75,CARDNO	7	1071	Z 175 314	92
580	5 68		SBR	PNHXT+3,EXOUT	7	1085	H Q90 +96	93
581	5 69		В	TSTPCH	4	1092	B Q21	93
582	5 70	*	_					
583	5 71	* PUNC	H COMP	ATIBILITY CARDS				
584	5 72	*						
585	5 73	EXCUT	CS	PUNCH+71	4	1096	/ 171	93
586	5 74		В	READOG	4	1100	B B09	93
587	5 75		BSP	ORIGTP	5	1104	U (U4 B	93
588	5 76		C	MNEMON-2, JOB'	7	1109	C H48 D54	93
589	5 77		BU	*+8	5	1116	B /28 /	93
590	5 78		MCW	IMAGE+80, PUNCH+80	7	1121	M I10 180	94
591 502	5 79		MCW	WORD2, PUNCH+39	7 7	1128 1135	M S88 139 L S99 166	94 94
592 593	5 80 5 81		LCA MCW	WORD3, PUNCH+66 PUNCH+66, PUNCH+50	7	1142	M 166 150	94
594	5 82		BCE	*+2,CONDSW,O	8	1149	B /58 C10 0	94
595	5 83		P		1	1157	4	94
596	5 84		В	WTAP2	4	1158	B +43	95
597	5 85		ĊS	PUNCH+66	4	1162	/ 166	95
598	5 86		A	+1,PUNCH+75	7	1166	A D55 175	95
599	5 87		MCW	WORD4, PUNCH+21	7	1173	M T20 121	95
600	5 88		MCW	WORD5, PUNCH+71	7	1180	M T31 171	95
601	5 89		SBR	PNHXT+3,OUTEX	7	1187	H Q90 \$26	95
602	5 90		BCE	*+2,CONDSW,O	8	1194	B S03 C10 0	96
603	5 91		P		1	1202	4	96
604	5 92		В	WTAP2	4	1203	B +43	96 06
605	5 93	LCTCD	В	NEWCRD	4	1207 1211	B Q34 / 180	96 96
606 607	5 94 5 95	LSTCD	CS BCE	PUNCH+80 *+4,CONDSW,0	4 8		B S26 C10 0	96
608	5 96		P	*T4;CUNUSN;C	1	1223	4	96
609	5 97		รร	8	2	1224	K 8	97
610	5 98	OUTEX	B	CNDOUT+7	4	1226	B +14	97
611	5 99	WORD1	DCW	'OBJECT CORE EXCEEDED'	20	1249		97
612	6 00	WORD2	DCW	*,0150221024056,029036,040047,0540611001*	39	1288		98
613	6 01	WORD3	DCW	',001008B001'	11	1299		99
614	6 02	WORD4	DCW	1,0680721063067/0610391	21	1320		99
615	6 03	WORD5	DCW	*,0010011C4C*	11	1331		100
616	6 04	OV2GM	DCW		1	1332		100
617	6 05		XFR	LIBRN			B 000	101

SEQ	PG LIN	LABEL	OP	OPERANDS	SFX	CT	LOCN	INSTRUCTION TYPE	CARD
618	6 06	_	JOB	1401 AUTOCODER-PASS 7 LEFT MAIN LINE -VERS	SION 3				
619	6 07 6 08	* 0540	CECON	D HALF OF MAIN PROGRAM					
620 621	6 09	# KEAU	SECON	D HALF OF MAIN PROGRAM					
622	6 10	-	ORG	201				0201	
623	6 11	INIT2	RTW	SYSTAP,2000		8	0201	L (U1 -00 R	104
624	6 12		NOP	XXXX		4	0209	N 000	104
625	6 13		BER	TPERR		5	0213	B 334 L	104
626	6 14		RTW	XTRATP, SAVCON		8	0218	L (U6 B98 R	104
627	6 15		NOP	XXXX		4	0226	N 000	104
628	6 16		BER	TPERR		5	0230	B 334 L	104
629	6 17		RWD	XTRATP		5	0235	U (U6 R	104
630	6 18		CW	GMSAVE, WMSW=1		7	0240) C72 D56	105
631	6 19		CW	ENDE1, ENDE2		7	0247) Z94 H27	105
632	6 20		SW	GM, 181		7 4	0254 0261	, 333 181 , U17	105 105
633 634	6 21 6 22		SW WTW	OVIGM XTRATP, ISIOCS		8	0265	L (U6 794 W	105
635	6 23		NOP	XXXX		4	0203	N 000	105
636	6 24		BER	TPERR		5	0277	B 334 L	106
637	6 25		RWD	XTRATP		5	0282	U (U6 R	106
638	6 26		CW	OVIGM		4	0287) U17	106
639	6 27		ZA	+5,LINCT		7	0291	+ D57 F13	106
640	6 28		BCE	RESET, NOOUT, 1		8	0298	B 543 C71 1	106
641	6 29		В	GET		4	0306	B A24	106
642	6 30		В	SETUP		4	0310	B 595	106
643	6 31		DCW	1 1		1	0314		107
644	6 32	*		22224					
645	6 33		LINE	PROGRAM					
646	6 34	#	ODC	222				0333	
647 648	6 35 6 36	GM	ORG DC	333		1	0333	0333	108
649	6 37	3 €	UC			*	0000		100
650	6 38		REDUN	DANCY ROUTINE					
651	6 39	*							
652		TPERR	SBR	XR2		4	0334	Н 094	108
653	6 41		SBR	REDXT+3		4	0338	H 406	108
654	6 42		MZ	PLUS9, XR2		7	0342	Y 538 094	108
655	6 43		MCW	4000-10+X2, TPINST+7		7	0349	M IRO 397	108
656	6 44		MN	TPINST+3,BSP1+3		7	0356	D 393 373	109
657	6 45		MCW	TPINST+7, INST2+7		7	0363	M 397 506	109
658	6 46	BSP1	BSP	INITAP		5	0370	U (UO B	109
659	6 47		BCE	WRTRED, TPINST+7, W		8	0375	B 479 397 W	109
660	6 48	TOTALCT	MCW	PLUS9, REACCT		8	0383	M 538 540 M (UO 000 R	109 110
661 662	6 49 6 50	TPINST	BER	INITAP,XXXX RDRERR		5	0398	B 407 L	110
663	6 51	REDXT	B	XXXX		4	0403	B 000	110
664	6 52	RDRERR		TPINST+3,BSP2+3		7	0407	D 393 417	110
665	6 53	BSP2	BSP	INITAP		5	0414	U (UO B	110
666	6 54		S	PLUS1, READCT		7	0419	\$ 539 540	110
667	6 55		BWZ	TPINST, READCT, B		8	0426	V 390 540 B	111

5	SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
ŧ	568	6	56		MN	TPINST+3.TPHALT+6	7	0434	D 393 447	111
	669		57	TPHALT		XXXX,790	7	0441	• 000 790	111
	570		58		MCW	TPINST+7, *+8	7	0448	M 397 462	111
	571		59		RT	INITAP, XXXX	8	0455	M (UO 000 R	111
	572		60		BSS	BSP1,E	5	0463	B 370 E	112
	573		61		Н	XXXX,712	7	0468	. 000 712	112
	574		62		В	REDXT	4	0475	B 403	112
	575		63	WRTRED		SYSTAP	5	0479	U (U1 E	112
	576		64		BCE	SUBCTR, WRTCTR-1,5	8	0484	B 516 541 5	112
	577		65		A	PLUS1, WRTCTR	7	0492	A 539 542	112
	578		66	INST2	WT	INITAP,XXXX	8	0499	M (UO 000 W	113
	579		67	1.1.512	BER	BSP1	5	0507	B 370 L	113
	580		68		В	REDXT	4	0512	B 403	113
	681		69	SUBCTR		WRTCTR	4	0516	S 542	113
	582		70	300011	MN	TPINST+3,*+7	7	0520	D 393 533	113
	583		71		H	XXXX,760	7	0527	. 000 760	113
	584		72		В	INST2	4	0534	B 499	113
	585		73	PLUS9	DCW	+9	1	0538	D 433	114
					DCW		1	0539		114
	686		74	PLUS1		+1	1	0540		114
	87		75 74	READCT		=1	2	0542		114
	886		76	WRTCTR	DCW	=2	2	0342		114
	589		77	* ^^*	DACC E					
	590		78	* GET	PA33 F					
	591		79	*		CCAVE 201	77	ΛE43	1 (40 201	117
	592		80	RESET	LCA	SSAVE, 201	1	0543	L C68 201	114
	593		81		LCA	CUCTAD 222	1	0550	L 222 D	114
	594		82		RT	SYSTAP,332	8	0551	M (U1 332 R	114
	595		83		CW	181,333	7	0559) 181 333	115
	596		84		RTW	SYSTAP, 2000	8	0566	L (U1 -00 R	115
	597		85		NOP	XXXX	4	0574	N 000	115
	598		86		BER	TPERR	5	0578	B 334 L	115
	599		87		MCW	201,2001	7	0583	M 201 -01	115
	700		88		MCW		1	0590	M	115
	701		89		В	2002	4	0591	B -02	115
	702		90	*						
	703		91	* BEGI	N MAIN	LINE PROGRAM				
	704		92	*			_			
	705		93	SETUP		PRINT+132	4	0595	/ 332	116
	706	6	94		CS		1	0599	/	116
	707		95	GETCRG	В	READOG	4	0600	B 809	116
	708		96	#						
7	709	6	97	* DETE	RMINE	ГҮРЕ				
	710	6	98	#						
	711	6	99	ANALWK	SW	TYPESW=1	4	0604	• D58	116
	712	7	00		MN	TYPE, TYPEA=1	7	0608	D 075 D59	116
7	713	7	01		BCE	BYPASS, TYPE, (8	0615	B S85 075 (116
	714	7	02		BCE	BYPASS, TYPE, 8	8	0623	B S85 075 8	116
7	715	7	03		BCE	BYPASS, TYPE, I	8	0631	B \$85 075 I	117
7	716	7	04		BCE	BYPASS, TYPE, H	8	0639	B S85 075 H	117
7	717	7	05		BCE	PROWRK, ALTER,	8	0647	8 881 080	117

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
718	7	06	ANALOG	BCE	SETCOM, LABEL-5, *	8	0655	B J72 H36 *	117
719	7	07		BCE	MACPNT, IMAGE+75, R	8	0663	B 805 I05 R	118
720	7	08		BCE	ISIOCS, IMAGE+75, W	8	0671	B 794 IO5 W	118
721	7	09		BCE	MACPNT+7, IMAGE+75, S	8	0679	B 812 IO5 S	118
722	7	10		BCE	MACPNT+7, IMAGE+75, Z	8	0687	B 812 IO5 Z	118
723	7	11		C	MNEMON-2, JOB:	7	0695	C H48 D54	118
724	7	115		BE	DOJ08	5	0702	B 843 S	119
725		12		C	ALTER, ALTNO	7	0707	C 080 I14	119
726		13		BU	SEQERR	5	0714	B +83 /	119
727		14		В	SETFRE	4	0719	B T01	119
728		15		CW	TYPESW	4	0723) D58	119
729		16		BCE	INSTR, TYPE,	8	0727	B V43 075	119
730		17		MN	TYPE,XR2	7	0735	D 075 094	120
731		18		A	XR2	4	0742	A 094	120
732		19		A	XR2	4	0746	A 094	120
733		20		В	*+1+X2	4	0750	B 7N4	120
734		21		В	DA	4	0754	B W52	120
735		22		В	CONST	4	0758	B ‡62	120
736		23		В	DSA	4	0762	B 969	120
737		24		В	GETOV2	4	0766	B +94	121
738		25		В	SFX	4	0770	B L43	121
739		26		В	TYPERR	4	0774	B S78	121
740		27		В	ORG	4	0778	B K12	121
741		28		8	DS	4	0782	B K85	121
742		29		В	TYPERR	4	0786	B 578	121
743		30		В	TYPERR	4	0790	B S78	121
744		31	*						
745		32	* MACR	O CARD					
746		33	*			_			
747		34	ISIOCS		'IOCS', KIND-1	7	0794	M D63 308	122
748		35		В	MACPNT+7	4	0801	B 812	122
749		36	MACPNT		MACRO, KIND	7	0805	M D68 309	122
750		37		В	SETFRE	4	0812	B T01	122
751		38		BCE	CALERR, IMAGE+86,7	8	0816	B 828 I16 7	122
752		39		В	COMXT	4	0824	B J85	122
753		40	CALERR	_	OVERCALL, PRINT+123	7	0828	M D76 323	123
754		41		В	BMPERR	4	0835	B L28	123
755		42		В	COMXT	4	0839	B J85	123
756		43	*						
757		44	* NEW	JOB CA	RD				
758		45	*						
759		46	DOJOB	MCW	OPERND, JOB	7	0843	M 102 C62	123
760		47		BW	DOIDT. NEWSW	8	0850	V 862 G27 1	123
761		48		В	PNCHCD	4	0858	B P62	123
762		49	DOIDT	MCM	IMAGE+80, PUNCH+80	7	0862	M I10 180	124
763		50		S	LINCT	4	0869	S F13	124
764		51		В	PRTHDG	4	0873	B -00	124
765		52		В	MACPNT+7	4	0877	8 812	124
766		53	*						
767	7	54	* PROG	RAM GE	NERATED RECORD				

SEQ	PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
768 769 770 771 772 773 774	7 55 7 56 7 57 7 58 7 59 7 60 7 61	# PROWRK	BCE CW MCS SW BCE BCE	XTRA, TYPE, Y OP+1 AOP, PRINT+11 OP+1 ADCON, TYPE, S LITRAL, TYPEA, 1	8 4 7 4 8	0881 0889 0893 0900 0904 0912	B 924 075 Y) 068 Z 070 211 , 068 B 944 075 S B 999 059 1	124 124 124 125 125
775	7 62		В	TYPERR	4	0920	B \$78	125
776	7 63	*						
777	7 64	* LITE	RAL GR	EATER THAN 30 CHARACTERS				
778	7 65	*			_			
779	7 66	XTRA	SW	PRINT+27	4	0924	, 227	125
780	7 67		MCW	FIXFRM+72, OPRAND	7	0928	M 072 278	125
781	7 68		CHAIN	5		0035	MACR	
782			MCW		1	0935 0936	M GEN	125
783			MCW		1	0937	M GEN M GEN	126 126
784 785			MCW MCW		1	0938	M GEN M GEN	126
786			MCW		i	0939	M GEN	126
787	7 69		8	BYPASS	4	0940	B \$85	126
788	7 70	*	U	DITAGG	•	0,40	5 305	120
789	7 71	* ADCO	N CARD					
790	7 72	*	it Callo					
791	7 73	ADCON	MCW	*ADCON*,KIND	7	0944	M D81 309	126
792	7 74		SW	PRINT+27	4	0951	, 227	126
793	7 75		MCW	FIXFRM+53,PRINT+40	7	0955	M 053 240	127
794	7 76		MCW	FIXFRM+16,OPCODE-2	7	0962	M 016 223	127
795	7 77	DSA	MCW	BOP, PRINT+95	7	0969	M 073 295	127
796	7 78		MCW	BOP, HOLDH+3	7	0976	M 073 D95	127
797	7 79		В	SETADD	4	0983	B \$45	127
798	7 80		BCE	SYMUND, BOP, =	8	0987	B L09 073 =	128
799	7 81		В	SETLIT	4	0995	B /56	128
800	7 82	#						
801	7 83	* LITE	RAL +	AREA DEFINITION CARDS				
802	7 84	*						
803	7 85	LITRAL	BWZ	PROLIT, TYPE, S	8	0999	V +41 075 S	128
804	7 86		BWZ	DADC, FIXFRM+1, B	8	1007	V S28 001 B	128
805	7 87		MCW	*RMARK*,KIND	7	1015	M D86 309	128
806	7 88		BCE	PROLIT+7, TYPE, A	8	1022	B #48 075 A	129
807	7 89		MCW	'G',KIND-4	7	1030	M D87 305	129
808	7 90		В	PROLIT+7	4	1037	B #48	129
809	7 91	PROLIT		*LIT*,KIND-2	7	1041	M D90 307	129
810	7 92		MCW	FIXFRM+53,PRINT+57	7	1048	M 053 257	129
811	7 93		MCW	FIXFRM+16, OPCODE-2	7	1055	M 016 223	130
812	7 94	CONST	В	SETADD	4	1062	B \$45	130
813	7 95		A	'00', COUNT	7 7	1066 1073	A D92 007 C 007 D92	130
814	7 96		C	COUNT, *00*	<i>(</i> 5	1073	B \$96 T	130 130
815 816	7 97 7 98		BL MZ	GOOD ZONE_1.STSTNT	7	1085	Y 188 005	130
817				ZONE-1,STSTMT	4	1092	B /56	131
OTI	7 99		В	SETLIT	7	1076	U 170	131

SEQ PG	LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
818 8	00	GOOD	BCE	AREADF, PRINT+27,=	8	1096	B /83 227 =	131
819 8		GUUU	BWZ	AREADF, FIXFRM+4, B	8	1104	V /83 004 B	131
	02		MCW	OPRAND, HOLDDT-1	7	1112	M 278 E43	131
						1112	B /56 227 1	
	03		BCE	SETLIT, PRINT+27, 1	8			131
	04		BWZ	UNSIGN, PRINT+27, 2	8	1127	V /72 227 2	132
1212 1001 444 1144 1444 1444 1444 1444 1	05		MCW	COUNT, XR1	7	1135	M 007 089	132
	06		MZ	BLANK4, PRINT+27+X1	7	1142	Y D33 2S7	132
	07		MZ	PRINT+27, HOLDH+X1	7	1149	Y 227 DZ2	132
826 8	08	SETLIT	В	SETLOC	4	1156	B U18	132
827 8	09		В	CONDNS	4	1160	B L54	132
828 8	10	LITOUT	В	PRNTLN	4	1164	B Y54	133
829 8	11		В	BYPASS	4	1168	B S85	133
830 8	12	UNSIGN	MCW	OPRAND, HOLDDT=52	7	1172	M 278 E44	133
	13		В	SETLIT	4	1179	B /56	133
	14	AREADF	BW	*+5.TYPESW	8	1183	V /95 D58 1	133
	15		В	SETLIT	4	1191	8 /56	133
	16		MCW	FIXFRM+13,LAB	7	1195	M 013 219	133
	17		MCW	BLANK4-2, PRINT+31	7	1202	M D31 231	134
	18		MCW	COUNT	4	1209	M 007	134
	19		MCW	1=1	4	1213	M E45	134
					7	1217	M E49 308	134
	20		MCW	'AREA',KIND-1		1224	B /56	134
	21	0.00	В	SETLIT	4			
	22	DADC	В	SETADD	4	1228	B \$45	134
	23		В	CONDNS	4	1232	B L54	134
	24		CS	PRINT+132	4	1236	/ 332	135
	25		CS		1	1240	/	135
	26		В	BYPASS	4	1241	B S85	135
845 8	27	#						
846 8	28	* SET (CONDEN	ISE ADDRESSES FOR CONSTANTS				
847 8	29	*						
848 8	30	SETADD	SBR	ADDXT+3	4	1245	H S77	135
849 8	31		ZÀ	LABADD, LOADAD	7	1249	+ 061 E83	135
	32		MCW	LOADAD	4	1256	M E83	135
	33		S	COUNT, WMADDR	7	1260	S 007 E78	135
852 8			A	+1,WMADDR	7		A D55 E78	136
	35	ADDXT		XXXX	4	1274	B 000	136
	36	*	•					-
	37	# GET !	WEYT E	FECURNS				
	38	*	TEXT T	ACCOMD 3		•		
	39	TYPERR	u	XXXX,770	7	1278	. 000 770	136
	40	BYPASS		GET	4	1285	B A24	136
		DIPASS				1289	V 604 D58 1	136
	41		BW	ANALWK, TYPESW	8 4	1297		136
	42		В	GETORG	*	1271	B 600	130
	43	*						
	44		FURM	RECORD TO PRINT AREA				
	45	*	.			*		
	46	SETFRE		FREEXT+3		1301	H T89	136
	47		MCS	ALTNO, ALT	7	1305	Z I14 204	137
	48		MCS	PAGENO, PG	7		Z H32 207	137
867 8	49		MZ	PAGENO, PG	7	1319	Y H32 207	137

SEQ	PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
949	0 50		Meu	I TAICNIO I TA:	7	1326	M H35 211	127
868	8 50		MCW	LINENO, LIN	7 7	1333	M H41 219	137 137
869	8 51		MCW	LABEL, LAB	7	1340	M H50 225	138
870	8 52		MCW	MNEMON, OPCODE	7	1347	M 102 278	138
871	8 53		MCW	OPERNO, OPRAND	8	1354	B T90 I05 Z	138
872 873	8 54 8 55		BCE BCE	IOGEN, IMAGE+75, Z IOGEN, IMAGE+75, Y	8	1362	B T90 I05 Y	138
874	8 56		BCE	GENSTM, IMAGE+75, C	8	1370	B T97 105 C	138
875			BCE	GENSTM, IMAGE+75, S	8	1378	B T97 105 S	139
876	8 57 8 58	FREEXT		XXXX	4	1386	B 000	139
877	8 5 9	IOGEN	MCW	*10*,*KIND	7	1390	M E51 309	139
878	8 60	GENSTM		GEN*, KIND+2	7	1397	M E54 307	139
879	8 61	GENSIM	BCE	COMERR, IMAGE+86, B	8	1404	B J97 I16 B	139
880	8 62		В	FREEXT	4	1412	B T86	139
881	8 63		DCW	1 1	1	1416	B 100	139
882	8 64	OV1GM	DC	1 1	1	1417	the state of the s	140
883		# # ATGM	DC			1411		140
884	8 65 8 66		MDIEN	INFORMATION TO PRINT AREA				
885	8 67	* HOOE	MOLEU	INFORMATION TO PRINT AREA				
886	8 68	SETLOC	CRD	LOCXT+3	4	1418	H V01	140
887	8 69	SEILUC	MCS	COUNT, CT	7	1422	Z 007 284	140
888			MCW	SFXCTR, SUFFIX	7	1429	M G18 280	140
889	8 70 8 71		MN	LABADD, LOCN	7	1436	D 061 290	140
890	8 72		MCW	LADADDICUCIN	i	1443	M	141
891	8 73		BWZ	TSTFR, LABADD-1, 2	8	1444	V U66 060 2	141
892	8 74		MCW	*X*,PRINT+92	7	1452	M E55 292	141
893	8 75		MZ	BLANK1, PRINT+89	7	1459	Y D30 289	141
894	8 76	TSTFR	BCE	FOURCH, LABADD-4, 0	8	1466	B V02 057 0	141
895	8 77	TSTLBL		DBLDEF, STLABL	8	1474	V V13 002 K	141
896	8 78	TSTSTM		STMBAD, STSTMT	8	1482	V V28 005 K	142
897	8 79	131311	BWZ	STMBAD, STSTMT, S	8	1490	V V28 005 S	142
898	8 80	LOCXT	В	XXXX	4	1498	B 000	142
899	8 81	FOURCH		BLANK1, LOCN-4	7	1502	M D30 286	142
900	8 82	CORO	В	TSTLBL	4	1509	B U74	142
901	8 83	DBLDEF		"LABEL", PRINT+120	7	1513	M E60 320	142
902	8 84	DOCUCI	В	BMPERR	4		B L28	143
903	8 85		В	TSTSIM	4	1524	B U82	143
904	8 86	STMBAD		BAD STATEMENT', PRINT+128	7	1528	M E73 328	143
905	8 87	311.040	В	BMPERR	4	1535	B L28	143
906	8 88		В	LOCXT	4		B U98	143
907	8 89	*	J	ESOA.	•		2 0,0	• • • • • • • • • • • • • • • • • • • •
908	8 90	# INST	RUCTIO	IN CARD				
909	8 91	*						
910	8 92	INSTR	MCW	DMOD, INDMCD	7	1543	M 074 303	143
911	8 93		MCW	BOP, INBOP	7	1550	M 073 301	143
912	8 94		MCW	AOP, INAOP	7	1557	M 070 297	144
913	8 95		MCW	OP, INOP	7	1564	M 067 293	144
914	8 96		MCW	DMOD, HOLDH+8	7	1571	M 074 E00	144
915	8 97		MCW		i	1578	M	144
916	8 98		MCW		ī	1579	M	144
917	8 99		MCW		1	1580		144

SEQ	PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
918	9 00		MCW	LABADD, WMADDR=5	7	1581	M 061 E78	144
919	9 01		MCW	LABADD, LOADAD=5	<u> </u>	1588	M 061 E83	145
920	9 02		A	COUNT, LOADAC	7	1595	A 007 E83	145
921	9 03		S	+1,LOADAD	7	1602	S D55 E83	145
922	9 04		BCE	SYMUND, BOP, =	8	1609	B L09 073 =	145
923	9 05		BCE	SYMUND, AOP, =	8	1617	B L09 070 =	145
924	9 06		BCE	BADOP, OP,	8	1625	B W37 067	146
925	9 07		В	SETLIT	4	1633	B /56	146
926	9 08	BADOP	MCW	OP', PRINT+123	7	1637	M E86 323	146
927	9 09	~	В	BMPERR	4	1644	B L28	146
928	9 10		В	SETLIT	4	1648	B /56	146
929	9 11	*						
930	9 12	* DEFI	NE ARE	A CARDS				
931	9 13	#						
932	9 14	DA	BCE	HEADER, TYPE, O	8	1652	B X41 075 0	146
933	9 15		MCW	SUPADD, WMADDR	7	1660	M 066 E78	147
934	9 16		MCW	'FIELD', KIND	7	1667	M E91 309	147
935	9 17		BWZ	SETDA, TYPE, B	8	1674	V W93 075 B	147
936	9 18		MCW	'SBF',KIND-2	7	1682	M E94 307	147
937	9 19		В	ORGXT	4	1689	B K62	147
938	9 20	SETDA	В	SETLOC	4	1693	B U18	147
939	9 21		В	CONDNS	4	1697	B L54	148
940	9 22		8	PRNTLN	4	1701	B Y54	148
941	9 23	BYPDA	В	GET	4	1705	B A24	148
942	9 24	011.01	BCE	RPTOUT, TYPE, #	8	1709	B X21 075 ‡	148
943	9 25		В	GETORG	4	1717	B 600	148
944	9 26	RPTOUT		SUPADD, WMADDR	7	1721	M 066 E78	148
945	9 27	,	В	CONDNS	4	1728	B L54	148
946	9 28		ĊS	PRINT+132	4	1732	/ 332	149
947	9 29		CS	11141111 256	1	1736	1	149
948	9 30		В	BYPDA	4	1737	B X05	149
949	9 31	HEADER		BADDA, FIXFRM+4, B	8	1741	V Y24 004 B	149
950	9 32	HEADEN	B	SETLOC	4	1749	B U18	149
951	9 33	NXTRPT		SUPADD, PRINT+97	7	1753	D 066 297	149
952	9 34	WATEL 1	MCW		i	1760	M	149
953	9 35		MCW	LABADD. WMADDR	7	1761	M 061 E78	150
954	9 36		В	CONDNS	4	1768	B L54	150
955	9 37		В	GET	4	1772	B A24	150
956	9 38		C	FIXFRM+16, CA '	7	1776	C 016 E97	150
957	9 39		BU	PNTDA	5	1783	B X96 /	150
958	9 40		BCE	NXTRPT, TYPE, #	8	1788	B X53 075 +	150
959		PNTDA	BCE	ADDR4K, PRINT+93,0	8	1796	B Y39 293 0	151
	9 41	PINIUA		PRINT+97, OBJCOR	7	1804	C 297 C09	151
960 961	9 42 9 43		C BL	PUADSW	5	1811	B K97 T	151
					4	1816	B Y54	151
962	9 44		В	PRNTLN GETORG	4	1820	B 600	151
963	9 45	D W D D W	B MCW	* NO B X L*,PRINT+129	7	1824	M F06 329	151
964	9 46	BADDA			4	1831	B L28	151
965	9 47		В	BMPERR HEADER+8	4	1835	B X49	152
966	9 48	ADDDAY	B 500		4	1839	H Y53	152
967	9 49	ADDR4K	SOK	AD4KXT+3	~~	1037	11 100	176

SEQ	PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
968	9 50		MCW	BLANK1, PRINT+93	7	1843	M D30 293	152
969	9 51	AD4KXT	В	XXXX	4	1850	B 000	152
970	9 52	#						
971	9 53	* PRIN	T STAT	EMENTS				
972	9 54	*						
973	9 55	PRNTLN	SBR	PRNTXT+3	4	1854	H Z50	152
974	9 56		BCE	DOPNT, LOCN,	8	1858	B Y86 290	152
975	9 57		BCE	DOPNT, TYPEA, 7	8	1866	B Y86 D59 7	152
976	9 58		. C	LOCN, ' 0081'	7	1874	C 290 F11	153
977	9 59		ВН	ADDERR	5	1881	B J57 U	153
978	9 60	DOPNT	BW	*+2,LSTOP	8	1886	V Y95 C70 1	153
979	9 61		W		1	1894	2	153
980	9 62		В	WTAPE	4	1895	B J24	153
981	9 63		BCE	CLR, TYPEA, 7	8	1899	B Z19 D59 7	153
982	9 64		С	LOCN, OBJCOR	7	1907	C 290 C09	154
983	9 65		BL	PUADSW	5	1914	B K97 T	154
984	9 66	CLR	CS	PRINT+132	4	1919	/ 332	154
985	9 67		CS		1	1923	/	154
986	9 68		BCE	PRNTXT, TYPE, 3	8	1924	B Z47 075 3	154
987	9 69		A	+1,LINCT=2	7	1932	A D55 F13	154
988	9 70		BCE	OVRFLO,LINCT-1,5	8	1939	B Z51 F12 5	155
989	9 71	PRNTXT	В	XXXX	4	1947	В 000	155
990	9 72	OVRFLO	В	PRTHDG	4	1951	B -00	155
991	9 73		S	LINCT	4	1955	S F13	155
992	9 74		В	PRNTXT	4	1959	B Z47	155
993	9 75	GETCV1	RTW	XTRATP, ISIOCS	8	1963	L (U6 794 R	155
994	9 76		NOP	XXXX	4	1971	N 000	155
995	9 77		BER	TPERR	5	1975	B 334 L	156
996	9 78		CW	OVIGM	4	1980) U17	156
997	9 79		RWD	XTRATP	5	1984	U (U6 R	156
998	9 80		В	BYPASS	4	1989	B S85	156
999	9 81		DCW	1 1	1	1993		156
1000	9 82	ENDE1	DCW	• •	1	1994		156
1001	9 83	_	XFR	LIBRN			В 000	157

:	SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
1	002	9	84		JOB	1401 AUTOCODER-PASS 7 RIGHT MAIN LINE -VERSION	3			
	003		85		ORG	2000			2000	
1	004	9	86	#						
	005	9	87	* PRINT	PAGE	HEADING				
	006		88	*						
	007		89	PRTHDG		PHDGXT+3	4	2000	н J23	160
	800		90		MCW	'PAGE', PRINT+109	7	2004	M F17 309	160
	009		91		Α	+1, NUMBER	7	2011	A D55 C84	160
	010		92		MCS	NUMBER, PRINT+114	7	2018	Z C84 314	160
	011		93		MCW	JOB, OPRAND	7	2025	M C62 278	160
	012		94		MCW	PUNCH+80, LOCN	7	2032 2039	M 180 290	160
	013		95		BW	WTHEAD.LSTOP	8 2	2039	V -52 C70 1 F 1	161
	014		96		CC	1	1	2049	2	161 161
	015 016		97		W CC	v	2	2050	FK	161
	017		98 99	WTHEAD		K *1*,200	7	2052	M D29 200	161
	018			MINEAU	В	WTAPE	4	2059	B J24	161
	019				ČS	PRINT+132	4	2063	/ 332	161
	020				CS	TRIMITIES.	i	2067	, 552	162
	021				MCW	*SFX CT LOCN INSTRUCTION TYPE CARD*, PRINT+114	7	2068	M F53 314	162
	022				MCW	'SEQ PG LIN LABEL OP OPERANDS', PRINT+34	7	2075	M F86 234	162
	023				BW	*+2,LSTOP	8	2082	V -91 C70 1	162
	024				W		1	2090	2	162
	025				MCW	101,200	7	2091	M F87 200	162
	026				8	WTAPE	4	2098	B J24	162
	027				CS	PRINT+132	4	2102	/ 332	163
	028				CS		1	2106	/	163
1	029	10	11		BW .	*+2,LSTOP	8	2107	V J16 C70 1	163
1	030	10	12		W		1	2115	2	163
1	031	10	13		В	WTAPE	4	2116	B J24	163
	032			PHDGXT	В	XXXX	4	2120	в 000	163
	033			WTAPE	SBR	WTXT+3	4	2124	H J56	163
	034				₿₩	WTXT, TAPOP	8	2128	V J53 C69 1	164
	035				WT	3,200	8	2136	M (U3 200 W	164
	036				NOP	XXXX	4		N 000	164
	037				BER	TPERR	5	2148	B 334 L	164
	038			WTXT	В	XXXX	4	2153	B 000	164
	039			ADDERR	_	ADDR*,PRINT+132	7	2157	M F92 332	164
	040				В	BMPERR	4	2164	8 L28	165
	041				В	DOPNT	4	2100	B Y86	165
	042			* **	-N.T.C. C.	400				
	043			* COMME	EN12 C	AKU				
	044			* CETCOM	D.	SETFRE	4	2172	B T01	165
	045 046			SETCOM	MCW	OPERND, PRINT+80	7	2176	M 102 280	165
	047				MCW	OF CUADA FULL AND	1	2183	M 102 200	165
	048				MCW		i	2184	M	165
	049			COMXT	В	PRNTLN	4	2185	B Y54	165
	050			JUISAT	В	READOG	4	2189	B 809	166
	051				В	ANALOG	4	2193	B 655	166
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SEQ	PG	LIN	LABEL	ОР	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
1052	10	34	COMERR	MCW	*MACRO ERROR*,PRINT+126	7	2197	M G03 326	166
1053			CONCIN	В	BMPERR	4	2204	B L28	166
1054				В	FREEXT	4	2208	B T86	166
1055			*	_					
1056			* ORG,	LTORG	CARDS				
1057			*	-					
1058			ORG	MCW	SUPADD, LABADD	7	2212	M 066 061	166
1059	10	41		MCW	ORGADD, SUPADD	7	2219	M 032 066	166
1060	10	42		BWZ	BADORG, FIXFRM+1,2	8	2226	V K70 001 2	167
1061	10	43	ORGOUT	MN	SUPADD, PRINT+97	7	2234	D 066 297	167
1062	10	44		MCW		1	2241	M	167
1063	10	45		BCE	ADDR4K,PRINT+93,0	8	2242	B Y39 293 0	167
1064	10	46		C	PRINT+97, OBJCOR	7	2250	C 297 CO9	167
1065				BL	PUADSW	5	2257	B K97 T	167
1066			ORGXT	В	SETLOC	4	2262	B U18	168
1067				В	LITOUT	4	2266	B /64	168
1068			BADORG		' UNDEF ORG', PRINT+130	7	2270	M G13 330	168
1069				В	BMPERR	4	2277	B L28	168
1070				В	ORGOUT	4	2281	B K34	168
1071			*						
1072			* DS, 1	EQU CAI	Kn2				
1073			*	0.00	CVMIND ACD -	•	2205	0 100 070 -	160
1074			DS	BCE	SYMUND, AOP,=	8	2285	8 L09 070 =	168
1075				В	ORGXT	4	2293	B K62	168
1076			* 5000	ADI	DRECC EVEEDS CORE				
1077				K - AUI	DRESS EXCEEDS CORE				
1078 1079			# DUAD CH	COD	ADSWXT+3	4	2297	H L08	169
1080			PUADSW	CM	ADDRSW	4	2301) D34	169
1081			ADSWXT		XXXX	4	2305	В 000	169
1082			# #DJ#A1	b	AAAA	•		5 000	
1083				R - IINI	DEFINED SYMBOL				
1084			#						
1085			SYMUND	SBR	UNDXT+3	4	2309	H L27	169
1086			.,,,,,,,	MCW	* SYM*, PRINT+127	7	2313	M G17 327	169
1087				В	BMPERR	4	2320	B L28	169
1088			UNDXT	В	XXXX	4	2324	В 000	169
1089			#						
1090	10	72	* BUMP	NUMBE	R OF ERRORS				
1091	10	73	#						
1092	10	74	BMPERR	SBR	ERREXT+3	4		H L42	170
1093				A	+1,ERRCNT	7		A D55 C66	170
1094			ERREXT	В	XXXX	4	2339	В 000	170
1095			*						
1096			* SUFF	IX CARI	D				
1097			*			_	2245	M	
1098			SFX	MCW	IMAGE+21,SFXCTR=1			M H51 G18	170
1099				В	LITOUT	4	2350	8 /64	170
1100			*		OUT THE				
1101	10	83	* CONDI	ENSE RI	JUIINE				

SEQ PG LIN	LABEL	OP	OPERANDS		SFX CT	LOCN	INSTRUCTION TYPE	CARD
1102 10 84	*							
1103 10 85	CONDNS	SBR	CONDXT+3		4	2354	H +42	170
1104 10 86		CW	BIGSW, DCSW	· · · · · · · · · · · · · · · · · · ·	7	2358) H17 G48	170
1105 10 87		ВМ	CONDXT, STSTMT		8	2365	V +39 005 K	171
1106 10 88		BW	PNCHCD+WMSW		8	2373	V P62 D56 1	171
1107 10 89	*							
1108 10 90	* PROCE	SS RE	CORD		·			
1109 10 91	#							
1110 10 92	NXTRCD	BCE	DOWM, TYPEA, C		8	2381	B N39 D59 0	171
1111 10 93		BCE	ENDRTN, TYPEA, 3		8	2389	B ‡08 D 59 3	171
1112 10 94		BWZ	TSTDC, TYPE, B		8	2397	V 017 075 B	172
1113 10 95	*							
1114 10 96	* TEST	ROOM	ON CARD					
1115 10 97	*							
1116 10 98	TSTROM		COUNT, '39'		7	2405	C 007 G20	172
1117 10 99		BL	TSTCON		5	2412	B Q91 T	172
1118 11 00		MCW	PNHLOC, ROOMCT=3		7	2417	M C81 G23	172
1119 11 01		A	COUNT, ROOMCT		7	2424	A 007 G23	172
1120 11 02		C	ROOMCT, '039'		7	2431	C G23 G26	173
1121 11 03		BL	SETPNH		5	2438	B 009 T	173
1122 11 04		BW	RSTCTR,NEWSW=1		8	2443	V N98 G27 1	173
1123 11 05	*							
1124 11 06	* TEST	SEQUE	NCE					
1125 11 07	*				_		· · · · · · · · · · · · · · · · · · ·	
1126 11 08		MCW	COUNTR=5, SEQCT=5		7	2451	M G32 G37	173
1127 11 09		A	COUNT, SEQCT		7	2458	A 007 G37	173
1128 11 10		C	LOADAD, SEQCT		7	2465	C E83 G37	174
1129 11 11		BU	SETPNH		5	2472	B 009 /	174
1130 11 12		A	COUNT, COUNTR		7	2477	A 007 G32	174
1131 11 13	* 4045	D 4 T 4	TO DIRECT ADEA					
1132 11 14		DATA	TO PUNCH AREA					
1133 11 15	# MVDATA	can	VD 2 HOLDH		7	2484	H 099 D92	174
1134 11 16 1135 11 17		_	XR3,HOLDH COUNT,XR3		7	2491	A 007 099	174 174
1136 11 18		A	COUNT, PNHLOC		7	2498	A 007 C81	175
1137 11 19		MCW	PNHLOC • XR2		7	2505	M C81 094	175
1138 11 20		MCW	XXXX+X3,PUNCH+X2		7	2512	M 0+0 1-0	175
1139 11 21		CW	DATASW=1		4	2519) G38	175
1140 11 22		BW	FIRST, NEWSW		8	2523	V 053 G27 1	175
1141 11 23		BWZ	CNDOUT, TYPE, B		8		V +07 075 B	176
1142 11 24	#	J	0110001 7111 2 7 5		•			1.0
1143 11 25		ORD N	ARK ADDRESS					
1144 11 26	*							
1145 11 27		MCW	WMADDR, CNVADD=5		7	2539	M E78 G43	176
1146 11 28		В	CNVRT		4	2546	B P16	176
1147 11 29		A	+3,WMLOC		7	2550	A G44 C75	176
1148 11 30		MCW	WMLOC, XR1		7	2557	M C75 089	176
1149 11 31		MCW	CNVADD, WMADDR-2		7	2564	M G43 E76	177
1150 11 32		MCW	WMADDR-2, XXXX+X1		7	2571	M E76 0+0	177
1151 11 33		С	XR1,+WMSTR-3		7	2578	C 089 G47	177

SEQ PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
1152 11 34		вu	CNDOUT	5	2585	B +07 /	177
1153 11 35		SW	WMSW	4	2590	• D56	177
1154 11 36		В.	CNDOUT	4	2594	B +07	177
1155 11 37	RSTCTR		LOADAD, COUNTR	7	2598	M E83 G32	178
1156 11 38		В	MYDATA	4	2605	B M84	178
1157 11 39	SETPNH		PNCHCD	4	2609	B P62	178
1158 11 40		В	NXTRCD	4	2613	B L81	178
1159 11 41	TSTDC	BW	COMPWM, NEWSW	8	2617	V 029 G27 1	178
1160 11 42		В	TSTROM	4	2625	B M05	178
1161 11 43	COMPWM	C	WMLOC, AWMSTR	7	2629	C C75 C78	178
1162 11 44		BE	TSTROM	5	2636	B M05 S	179
1163 11 45		SW	DCSW=1	4	2641	, G48	179
1164 11 46		В	PNCHCD	4	2645	B P62	179
1165 11 47		В	TSTROM	4	2649	B M05	179
1166 11 48	4						
1167 11 49	* FIRST	T DATA	ON CARD				
1168 11 50	*						
1169 11 51	FIRST	CW	NEWSW	4	2653) G27	179
1170 11 52		BWZ	PRODC, TYPE, 8	8	2657	V 069 075 B	179
1171 11 53		В	CNDOUT	4	2665	B +07	179
1172 11 54	#						
1173 11 55	* CONDE	ENSE D	C CARDS				
1174 11 56	*						
1175 11 57	PRODC	MCW	')',PUNCH+47	7	2669	M G49 147	180
1176 11 58		MCW	WMADDR, CNVACD	7	2676	M E78 G43	180
1177 11 59		В	CNVRT	4	2683	B P16	180
1178 11 60		MCW	CNVADD, WMADDR-2	7	2687	M G43 E76	180
1179 11 61		MCW	WMADDR-2, WMSTR-15	7	2694	M E76 C96	180
1180 11 62		MCW	WMADDR-2	4	2701	M E76	180
1181 11 63		A	+6,WMLOC	7	2705	A G50 C75	181
1182 11 64		В	CNDOUT	4	2712	B +07	181
1183 11 65	#		TO A DIGIT ADDRESS				
1184 11 66		ERI 5	TO 3 DIGIT ADDRESS				
1185 11 67	*	600	CHUVT. 2		2717		
1186 11 68	CNVRT		CNVXT+3		2716		181
1187 11 69	ADDAGN	BAV	#+1	5	2720	8. P25. Z	181
1188 11 70	ADDAGN		+96,CNVADD-3	7	2725	A G52 G40	181
1189 11 71		BAV	ADDAGN	5 7	2732	8 P25 Z	181
1190 11 72		MZ	CNVADD-4, CNVADD	7	2737 2744	Y G39 G43	181
1191 11 73 1192 11 74		MN MZ	CNVADD-3, #+4	7		D G40 P54 Y 189 G41	182 182
1192 11 74	CNIVYT	м2 В	ZONE, CNVADD-2 XXXX	4	2758	B 000	182
1194 11 76	CNVXT	D	^^^	7	2136	B 000	102
1194 11 76	* PUNCH	1 A CA	on .				
1196 11 78	* PUNCE	, A CA					
1197 11 79	PNCHCD	SBR	PNHXT+3	4	2762	H Q90	182
1198 11 80		BW	EDIT, DCSW	8		V Q07 G48 1	182
1199 11 81		BW	EDIT, DATASW	8		V Q07 G38 1	182
1200 11 82		MCW	COUNTR, CNVACD	7	2782	M G32 G43	183
1201 11 83		В	CNVRT	4	2789	8 P16	183
21 03		~	w	*		_ ,	

SEQ PG LIN	LABEL OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
1202 11 84	MCW	CNVADD, WMSTR-21	7	2793	M G43 C90	183
1202 11 84	MCW		7	2800	M C81 C87	183
1204 11 86	EDIT MCE	·	7	2807	E 011 171	183
1204 11 88	MN	*0*,PUNCH+41	7	2814	D F87 141	183
1206 11 88	TSTPCH BCE		8	2821	B Q30 C10 0	184
1207 11 89	P	***2,00003#,0	1	2829	4	184
1208 11 90	В	WTAP2	4	2830	B +43	184
1200 11 90	*	HIME &	•	2030	0 .,5	
1210 11 92		UNTERS + SWITCHES	the second second second second			
1211 11 93	* NESET CO	ONIEKS + SMITCHES				
1212 11 94	NEWCRD A	+1,PUNCH+75	7	2834	A D55 175	184
1213 11 95	CS	PUNCH+71	4	2841	/ 171	184
1214 11 96	LCA	ALO 1 PUNCUL71	7	2845	L G84 171	184
1215 11 97	SW	NEWSW, DATASW	7	2852	, 627 638	184
1216 11 98	CW	WMSW, DCSW	7	2859) D56 G48	185
1217 11 99	MCW		7	2866	M G87 C81	185
1218 12 00	MCW		7	2873	M C78 C75	185
1219 12 01	MCW		7	2880	M H14 D11	185
1220 12 02	PNHXT B	XXXX	4	2887	В 000	185
1221 12 03	*	AAAA	•			
1222 12 04		GREATER THAN 39 CHARACTERS				
1223 12 05	* *	ONEMIER THAN 37 CHARACTERS				
1224 12 06	TSTCON BW	*+5, NEWSW	8	2891	V R03 G27 1	186
1225 12 07	B	PNCHCD	4	2899	B P62	186
1226 12 08	MCW		7	2903	M 007 H16	186
1227 12 09	MCW		7	2910	M E83 G32	186
1228 12 10	MCW		7	2917	M G20 007	186
1229 12 11	S	'39',HOLDCT	7	2924	S G20 H16	187
1230 12 12	S	HOLDCT, COUNTR	7	2931	S H16 G32	187
1231 12 13	MZ	ZONE-3, HOLDCT	7	2938	Y 186 H16	187
1232 12 14	SW	BIGSW=1	4	2945	, H17	187
1233 12 15	MCW		7	2949	M E78 H22	187
1234 12 16	В	MVDATA	4	2956	B M84	187
1235 12 17	BIGRN B	PNCHCD	4	2960	B P62	188
1236 12 18	CW	BIGSW	4	2964) H17	188
1237 12 19	MCW		7	2968	M H16 007	188
1238 12 20	MCW		7	2975	M H23 075	188
1239 12 21	MCW	"	7	2982	M E44 E05	188
1240 12 22	MCW		ż	2989	M H22 E78	188
1240 12 22	A	1391, WMADDR	7	2996	A G20 E78	189
1242 12 24	В	RSTCTR	4	3003	B N98	189
1242 12 24	*	V2101V	··•	5005	5 ,175	,
1244 12 26		M CONDENSE ROUTINE				
1244 12 20	# EVII LKG	HE COMPLISE NOOTINE				
1245 12 27	CNDOUT MCS	PUNCH+75, CARDNO	7	3007	Z 175 314	189
1246 12 26	_	XR3+1	4	3014	S 100	189
	S S	VL 7. T	1	3018	S 100	189
1248 12 30	s \$		1	3019	S	189
1249 12 31	S BW	BIGRN, BIGSW	8	3020	V R60 H17 1	189
1250 12 32			7	3028	M D30 E44	190
1251 12 33	MCW	BLANK1, HOLDCT	•	3020	H UJU LTT	170

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION	TYPE	CARD
1252	10	27		MCU	דמן וחנו		2025	M EAA		100
1252 1253			CONDXT	MCW	HOLDDT XXXX	4	3035 3039	M E44 B 000		190 190
1254			WTAP2	SBR	WT2XT+3	4	3043	H +82		190
1255			HIMFZ	BW	WT2XT, TAPOP	8	3047	V +79 C69 1		190
1256				MCW	1+1,100	7	3055	M H24 100		190
1257				WT	3,100	8	3062	M (U3 100 W		191
1258				NOP	XXXX	4	3070	N 000		191
1259				BER	TPERR	5	3074	B 334 L		191
1260			WT2XT	B	XXXX	4	3079	B 000		191
1261			#	D	^^^	•	3017	5 000		171
1262				ENCE E	RROR ON INPUT RECORDS					
1263			* 3540	L:10 L	WOW ON THE OF WEGGINDS					
1264			SECERR	н	XXXX,777	7	3083	• 000 777		191
1265			3642,	В	SEQERR	4	3090	B +83		191
1266			GETOV2		SYSTAP, ISIOCS	8	3094	L (U1 794 R		192
1267			02.072	NOP	XXXX	4	3102	N 000		192
1268				BER	TPERR	5	3106	B 334 L		192
1269				CW	OV2GM	4	3111) T32		192
1270				BSP	SYSTAP	5	3115	Ú (U1 B		192
1271				В	EXEND	4	3120	B 794		192
1272			*	_						
1273			* GET F	RECORD	FROM WORKING TAPE					
1274			#							
1275			GET	SBR	WORKXT+3	4	3124	H B08		192
1276				C	BLKCT, KBLKNG	7	3128	C C00 C04		193
1277	12	59		BU	NXTREC	5	3135	B A68 /		193
1278	12	60		S	HOLDA	4	3140	S C01		193
1279	12	61		SBR	LGTCK+6.INPUT5+13	7	3144	H B80 I31		193
1280	12	62		RT	WORKTP, INPUT5	8	3151	M (U5 I18 R		193
1281	12	63		8	CHKLGT	4	3159	B 859		193
1282	12	64		BER	TPERR	5	3163	B 334 L		194
1283			NXTREC	A	+80,BLKCT	7	3168	A H26 C00		194
1284				MCW	BLKCT, XR3	7	3175	M COO 099		194
1285				MCW	FIXINP, FIXFRM+80	7	3182	M IA7 080		194
1286	12	68		CHAIN	10		,		MACRO	
1287				MCW.		1	3189	M	GEN	194
1288				MCW		1	3190	M	GEN	194
1289				MCW		1	3191	M	GEN	194
1290				MCW		1	3192	M	GEN	195
1291				MCW		1	3193	M	GEN	195
1292				MCW		1	3194	M	GEN	195
1293				MCW		1	3195	M	GEN	195
1294				MCW		1	3196	M	GEN	195
1295				MCW		1	3197	M	GEN	195
1296	12	40		MCW	XR3+1	1	3198	M S 100	GEN	195
1297 1298				S C	ATCAM	4	3199	S 100		196
1299				Ç		1	3203 3204	S S		196 196
1300			WORKXT	D D	xxxx	4	3204	B 000		196
1301			# WUNNAI	U	2000	7	7207	5 000		1 70
± J (4		1)	-							

			1401 AUTOCODER-PASS 7 RIGHT	MAIN LINE	-VERSION	3	3774L		PAGE	27
SEQ PG LIN	LABEL	OP	OPERANDS	•		SFX CT	LOCN	INSTRUCTION	TYPE	CARD
1302 12 74	* READ	ORIGI	NAL TAPE							
1303 12 75	*									
1304 12 76	READOG		ORIGXT+3			4	3209	H 858		196
1305 12 77		MCW	BLANK1, IMAGE+21			7	3213	M D30 H51		196
1306 12 78		\$	IMAGE+20			4	3220	S H50		196
1307 12 79		S				1	3224	.		197
1308 12 80		S				1	3225	S		197
1309 12 81		\$				<u>1</u>	3226	S		197
1310 12 82		SBR	LGTCK+6, INPUT4+12			7	3227	H B80 H43		197
1311 12 83		RT	ORIGTP, INPUT4			8	3234	M (U4 H31 R		197
1312 12 84		В	CHKLGT			4	3242	B B59		197
1313 12 85		BER	TPERR			5	3246	B 334 L		197
1314 12 86		S	XR2+1			4	3251	S 095		198
1315 12 87	ORIGXT	В	XXXX			4	3255	B 000		198
1316 12 88	*	u =00	CHOOT DECODOS							
1317 12 89		K FUR	SHORT RECORDS							
1318 12 90	*	C 0.0	VD 2				2250	004		100
1319 12 91	CHKLGT		XR2			4	3259	H 094		198
1320 12 92		SBR	LGTXT+3			4	3263 3267	H B97 Y D12 094		198
1321 12 93	LCTCK	MZ	181,XR2			7 8	3274	B IQ8 000		198 198
1322 12 94	LGTCK	BCE CHAIN	4000-12+X2,XXXX,			0	3214	D INO OOO	MACRO	190
1323 12 95 1324		BCE	12			1	3282	В	GEN	198
1325		BCE				i	3283	8	GEN	199
1326		BCE				1	3284	В	GEN	199
1327		BCE				1	3285	8	GEN	199
1328		BCE				i	3286	8	GEN	199
1329		BCE				1	3287	В	GEN	199
1330		BCE				î	3288	8	GEN	199
1331		BCE				i	3289	8	GEN	199
1332		BCE				i	3290	В	GEN	200
1333		BCE				1	3291	8	GEN	200
1334		BCE				ī	3292	В	GEN	200
1335		BCE				i	3293	В	GEN	200
1336 12 96	LGTXT	В	xxxx			4	3294	в 000	J 11.1	200
1337 12 97	HOLDA	DCW	+0000			4	3301			200
2003 26 21		501				7	3301			

1338 12 98

1339 12 99

1340 13 00

1341 13 01

1342 13 02

1343 13 03

1344 13 04

1345 13 05

1346 13 06

1347 13 07

1346 13 CE 1349 13 09

1350 13 10 1351 13 11 BLKCT EQU

KBLKNG DCW

GBJCOR DCW

CONDSW DCW

ERRCNT DCW

NCCUT COM

SAVCON EQU

WMLOC DSA

GMSAVE DC

JOB

SSAVE

TAPOP

LSTOP

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DCW

DCW

LCW

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3372 3375 C90

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201

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SEQ PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION	TYPE	CARD
1352 13 12	AWMSTR	n s a	WMSTR-21	3	3378	C90		204
1353 13 13	PNHLOC		10001	3	3381	070		204
1354 13 14	NUMBER		*001*	3	3384			204
1355 13 15		DCW	'001001040040040040040040040'	27	3411			205
1356 13 16		LTORG			J ,	3412		200
1330 13 10		DCW	*B*	1	3412	J.12	LIT	205
531		0011	1/ 0801	9	3421		LIT	205
532			1/ 0801	7	3428		LIT	206
7,2			111	i	3429		LIT	206
543	BLANK4		=04	4	3433		AREA	206
545	ADDRSW		=01	1	3434		AREA	206
553			*ERRORS*	6	3440		LIT	206
			1 11	4	3444		LIT	206
577			'N000000'	7	3451		LIT	206
. • , .			*J08*	3	3454		LIT	207
			+1	1	3455		LIT	207
630	WMSW		=01	1	3456		AREA	207
			+5	1	3457		LIT	207
711	TYPESW		=01	1	3458		AREA	207
712	TYPEA		=01	1	3459		AREA	207
			'10CS'	4	3463		LIT	207
749			*MACRO*	5	3468		LIT	208
753			*OVERCALL*	8	3476		LIT	208
791			'ADCON'	5	3481		LIT	208
805			*RMARK*	5	3486		LIT	208
			161	1	3487		LIT	208
			"LIT"	3	3490		LIT	208
			1001	2	3492		LIT	208
830	HOLDDT		=52	52	3544		AREA	210
			1=1	1	3545		LIT	210
			AREA	4	3549		LIT	210
			10.	2	3551		LIT	210
			'GEN'	3	3554		LIT	210
			1 X 1	1	3555		LIT	211
901			*LABEL*	5	3560		LIT	211
904			'BAD STATEMENT'	13	3573		LIT	211
918	WMADDR		=05	5	3578		AREA	211
919	LOADAD		=05	5	3583		AREA	211
			* OP*	3	3586		LIT	211
934			'FIELD'	5	3591		LIT	211
			'SBF'	3	3594		LIT	212 212
0.44			*DA *	3	3597		LIT	212
964			' NO B X L'	9	3606			
976	1 75107		0081	5 2	3611 3613		LIT AREA	212 212
987	LINCT		=02	4	3617		LIT	212
1001			'PAGE' 'SFX CT LOCN INSTRUCTION TYPE CARD'	36	3653		LIT	212
1021 1022			'SFX CT LOCN INSTRUCTION TYPE CARD' 'SEQ PG LIN LABEL OP OPERANDS'	33	3686		LIT	213
1022			101	1	3687		LIT	214
1039			* ADDR*	5	3692		LIT	214
1033			MUUN	,	JU / E			- 4 1

1401 AUTOCODER-PASS 7 RIGHT MAIN LINE

SEQ PG LIN	LABEL OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
1052		*MACRO ERROR*	11	3703	LIT	215
1068		' UNDEF ORG'	10	3713	LIT	215
		* SYM*	4	3717	LIT	215
1098	SFXCTR	=01	1	3718	AREA	215
		1391	2	3720	LIT	215
1118	ROOMCT	=03	3	3723	AREA	215
		10391	3	3726	LIT	215
1122	NEWSW	=01	1	3727	AREA	216
1126	COUNTR	=05	5	3732	AREA	216
1126	SEQCT	=05	5	3737	AREA	216
1139	DATASW	=01	1	3738	AREA	216
1145	CNVADD	=05	5	3743	AREA	216
		+3	1	3744	LIT	216
1151		+WMSTR-3	3	3747	DO8 ADCO	
1163	DCSW	=01	1	3748	AREA	217
		1)1	1	3749	LIT	217
		+6	1	3750	LIT	217
		+96	2	3752	LIT	217
1214		*LO , , , 1 *	32	3784	LIT	217
		'000'	3	3787	LIT	218
1219		' 001001040040040040040040040 '	27	3814	LIT	218
1226	HOLDCT	=02	2	3816	AREA	218
1232	BIGSW	=01	1	3817	AREA	218
1233	SAVEWM	=05	5	3822	AREA	218
		4 A 4	1	3823	LIT	218
		1+1	1	3824	LIT	219
		+80	2	3826	LIT	219
1357 13 17	ENDE2 DC		1	3827		219
1358 13 18	BLANK1 EQ			3430		
1359 13 19	HOLDH EQ			3492		
1360 13 20	EX				B 000	220
1361 13 21	EN	D LIBRN			/ 000 080	223

BOOTSTRAP

L068112,102106,113/101099/199,027A070028)027B0010270B0261,001/001113I0 ,008015,022029,036040,047054,061068,072/061039 ,0010011040

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1401 AUTOCODER-PASS 8 LOAD TAPE-RIGHT MAIN-VERSION 3 3782L

	00 1 111		0.5	CDED AND C	SEV ST	LOCK	TAICTOHCTICAL TVDC	CADD
SEQ	PG LIN	LABEL	OP	OPERANDS	SEX CI	LUCN	INSTRUCTION TYPE	CARD
101	1 01	000	JOB	1401 AUTOCODER-PASS 8 LOAD TAPE-RIGHT MAIN-VERSION	3			
102	1 02		CTL	630 1				
103	1 03	*	··-	70 av 2000044				
104	1 04		1E2 U2	ED BY PROGRAM				
105 106	1 05 1 06	* INITAP	EOH.	(110		(00		
107	1 07	INTAPE		(U5		(U5		
108	1 08	OUTAPE		(06		(06		
109	1 09			100		0100		
110	1 10	OUTPUT		PUNCH+1		0101		
111	1 11	IMAGE	EQU	0		0000		
112	1 12	XXXX	EQU	0		0000		
113	1 13	COUNT	EQU	IMAGE+7		0007		
114	1 14	LABADD		IMAGE+61		0061		
115	1 15	SUPADD		IMAGE+66		0066		
116	1 16	ACP	EQU	IMAGE+70		0070		
117	1 17	BOP	EQU	IMAGE+73		0073		
118	1 18	DMOD	EQU	IMAGE+74		0074 0075		
119 120	1 19 1 20	TYPE PRINT	EQU EQU	IMAGE+75 200		0200		
121	1 21	LIBRN	EQU	0		0000		
122	1 22	LIBRIA	ORG	87		0000	0087	
123	1 23	XR1	DCW	000	3	0089	555.	4
124	1 24		DC	00	2	0091		4
125	1 25	XR2	DCW	000	3	0094		4
126	1 26		DC	00	2	0096		4
127	1 27	XR3	DCW	000	3	0099		4
128	1 28		DC	00	2	0101		4
129	1 29	*						
130	1 30		IALIZA	TION ROUTINE				
131	1 31	*	000	22/			0224	
132 133	1 32	ZONE	ORG DCW	336 *2SKB*		0339	0336	5
134	1 33 1 34	INITLZ		OUTAPE	4 5	0340	U (U6 R	5
135	1 35	171112	C	OUTOPN,'2'	7	0345	C -00 P07	5
136	1 36		Вн	ENDJOB	5	0352	B -55 U	5
137	1 37		C	OUTOPN, '7'	7	0357	C -00 PO8	5
138	1 38		BL	ENDJOB	5	0364	B -55 T	5
139	1 39		RWD	4	5	0369	U (U4 R	5 5
140	1 40		RWD	INTAPE	5	0374	U (U5 R	6
141	1 41		CW	LTAPSW.PNH4SW	7	0379) P25 P26	6
142	1 42		MCW	SSOP, TSTSS	7	0386	M -01 475	6
143	1 43	*	F00 0	T: GADO				
144	1 44		FOR C	TL CARD				
145	1 45	# DEACA	MCU	10121 CTCV+4	7	0393	M P11 058	Z
146 147	1 46 1 47	READ4	MCW RT	'013',LGTCK+6 4,1	8	0400	M (U4 001 R	6 6
171	1 71		IN I	T ; &	0	0700	II TOT OUT N	0

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SEQ	PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
198	1 98		LCA	*L{U1001R*	4	0629	L P52	13
199	1 99		LCA	1.1	4	0633	L P53	13
200	2 00		LCA	BSPTU1	4	0637	L 093	13
201	2 01	*						
202	2 02	* TEST	OBJEC	T CORE SIZE				
203	2 03	*						
204	2 04		C	22,131	7	0641	C 022 P54	13
205	2 05		BE	IS4K	5	0648	B 747 S	13
206	2 06		ВН	IS4K	5	0653	8 747 U	13
207	2 07		C	22,161	7	0658	C 022 P55	13
208	2 08		BL	I S4K	5	0665	B 747 T	14
209	2 09		LCA	*IO+*, PUNCH+44	7	0670	L P58 144	14
210	2 10		LCA	10991	4	0677	L P61	14
211	2 11		LCA	'B053'	4	0681	L P65	14
212	2 12		LCA	'M074099'	4	0685	L P72	14
213	2 13		LCA	1)0991	4	0689	L P76	14
214	2 14		LCA	'B001/'	4	0693	L P81	14
215	2 15		LCA	¹C004041¹	4	0697	L P88	15
216	2 16		LCA	1=0440041	4	0701	L P95	15
217	2 17		LCA	1/1911	4	0705	L P99	15
218	2 18		BCE	BTSTRP,22,6	8	0709	8 842 022 6 8 734 033 E	15 15
219	2 19		BCE	IS12K, 22, 5	8	0717 0725	B 736 022 5 Y 337 104	15
220	2 20		MZ	ZONE-2, PUNCH+4	7	0732	B 842	15
221	2 21	10124	В	BTSTRP	4 7	0736	Y 338 104	16
222	2 22	IS12K	ΜZ	ZONE-1, PUNCH+4	4	0743	B 842	16
223	2 23	TCAN	В	BTSTRP	7	0747	L Q01 175	16
224	2 24	I S4K	LCA	'IO',PUNCH+75 'B053',PUNCH+46	7	0754	L P65 146	16
225 226	2 25 2 26		LCA LCA	*M080099*	4	0761	L Q08	16
227	2 27		LCA	1)0991	4	0765	L P76	16
228	2 28		LCA	*B001*	4	0769	L Q12	16
229	2 29		LCA	'B0320020'	4	0773	L Q20	17
230	2 30		LCA	1)0021	4	0777	L Q24	17
231	2 31		LCA	'A075003'	4	0781	L Q31	17
232			LCA	1,0021	4	0785	L Q35	17
233	2 33		LCA	1/1991	4	0789	L Q39	17
234	2 34		SW	PUNCH+80	4	0793	, 180	17
235	2 35		BCE	BTSTRP, 22,3	8	0797	B 842 022 3	17
236	2 36		MCW	'Z',PUNCH+2	7	0805	M Q40 102	18
237	2 37		BCE	BTSTRP, 22, 2	8	0812	B 842 022 2	18
238	2 38		MCW	TT, PUNCH+2	7	0820	M Q41 102	18
239	2 39		BCE	BTSTRP, 22,1	8	0827	B 842 022 1	18
240	2 40		MCW	'I',PUNCH+2	7	0835	M Q42 102	18
241	2 41	*						
242	2 42	* SET	UP BO0	TSTRAP RECORD				
243	2 43	*						
244	2 44	BTSTRP		WRITE1	4	0842	B -30	19
245	2 45		CW	PUNCH+99	4	0846) 199	19
246	2 46		LCA	GRPMRK, PUNCH+80	7	0850	L P06 180	19
247	2 47		LCA	* *, PUNCH+24	7	0857	L Q43 124	19

SEQ	PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
248	2 48		LCA	1.0201	4	0864	L Q47	19
249	2 49		LCA	BER1	4	0868	L 080	19
250	2 50		LCA	RDREC	4	0872	L 088	19
251	2 51		LCA	1.1	4	0876	L P53	20
252	2 52		LCA	BSPTU1	4	0880	L 093	20
253	2 53		В	WRITE1	4	0884	B -30	20
254	2 54		CS	PUNCH+75	4	0888	/ 175	20
255	2 55		LCA	* *, PUNCH+35	7	0892	L Q43 135	20
256	2 56		LCA	*B007*	4	0899	L P35	20
257	2 57		LCA	'N000'	4	0903	Ł Q51	20
258	2 58		LCA	· I	4	0907	L Q58	21
259	2 59		LCA	BER1	4	0911	L 080	21
260	2 60		LCA	RDREC	4	0915	L 088	21
261	2 61		LCA	1,1	4	0919	L P53	21
262	2 62		LCA	BSPTU1	4	0923	L 093	21
263	2 63	*						
264	2 64	* TEST	PROCE	SSOR CORE SIZE				
265	2 65	*						
266	2 66		C	21, '3'	7	0927	C 021 P54	21
267	2 67		BE	START	5	0934	B +17 S	21
268	2 68		ВН	START	5	0939	B +17 U	22
269	2 69		C	21, '6'	7	0944	C 021 P55	22
270	2 70		BL	START	5	0951	B +17 T	22
271	2 71		MN	21, SAVEZN=1	7	0956	D 021 Q59	22
272	2 72		A	+3,SAVEZN	7	0963	A Q60 Q59	22
273	2 73		MN	SAVEZN, *+4	7	0970	D Q59 980	22
274	2 74		MZ	ZONE, *+7	7	0977	Y 339 990	23
275	2 75		LCA	GRPMRK, GRPMRK	7	0984	L P06 P06	23
276	2 76		CW	GRPMRK	4	0991) P06	23
277	2 77		MCW	'400', KBLKNG	7	0995	M Q63 P01	23
278	2 78		BCE	START, 21, 4	8 7	1002 1010	8 #17 021 4 A Q63 P01	23 24
279	2 79		A	'400',KBLKNG	1	1010	A 602 LOI	47
280	2 80 2 81	* CET	0 A D A M C	TEDC				
281		* SET	PARAME	1 EK3				
282 283	2 82 2 83	* Start	BCE	PNH40P,23,4	8	1017	B 520 023 4	24
284	2 84	JIANI	BCE	PNH40P,23,5	8	1025	B 520 023 5	24
285	2 85		BCE	PNH40P, 23, 6	8	1033	B 520 023 6	24
286	2 86		BCE	PNH40P,23,7	8	1041	B 520 023 7	24
287	2 87	TSTLSW		EOJOB, LTAPSW	8	1049	V. X81 P25 1	25
288	2 88	, 5 , 5 ,	MCW	KBLKNG, BLKCT	7	1057	M P01 P04	25
289	2 89		CS.	80	4	1064	/ 080	25
290	2 90		BW	SETINP, JOBSW	8	1068	V #84 P19 1	25
291	2 91		RT	INTAPE, INPUT	8	1076	M (U5 +28 R	25
292	2 92	SETINP		IMAGE+23, IMAGE+57	7	1084	, 023 057	26
293	2 93		SW	IMAGE+62, IMAGE+67	7	1091	, 062 067	26
294	2 94		SW	IMAGE+68, IMAGE+71	7	1098	, 068 071	26
295	2 95		SW	IMAGE+74, IMAGE+6	7	1105	, 074 006	26
296	2 96		SW	IMAGE+1	4	1112	, 001	26
297	2 97		В	GET	4	1116	B -76	26

1401 AUTOCODER-PASS 8 LOAD TAPE-RIGHT MAIN-VERSION 3

SEQ	PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
298	2 98	*						
299	2 99	* ANAL	YZE RI	ECORD TYPE				
300	3 00	*						
301	3 01	ANALYZ	BCE	BYPASS, TYPE, (8	1120	B J59 075 (27
302	3 02		ВМ	BYPASS, IMAGE+5	8	1128	V J59 005 K	27
303	3 03		BCE	INSTR, TYPE,	8	1136	B S22 075	27
304	3 04		BCE	DOJOB, TYPE, I	8	1144	B S11 075 I	27
305	3 05		MN	TYPE, XR2	7	1152	D 075 094	27
306	3 06		A	XR2	4	1159	A 094	28
307	3 07		Α	XR2	4	1163	A 094	28
308	3 08		В	*+1+X2	4	1167	B /P1	28
309	3 09		В	DA	4	1171	B V85	28
310	3 10		В	CONST	4	1175	B \$65	28
311	3 11		В	DSA	4	1179	B V59	28
312	3 12		В	EXEND	4	1183	B W82	28
313	3 13		В	BYPASS	4	1187	B J59	29
314	3 14		В	BYPASS	4	1191	B J59	29
315	3 15		В	BYPASS	4	1195	B J59	29
316	3 16		В	BYPASS	4	1199	B J59	29
317	3 17		В	XTRA	4	1203	B V34	29
318	3 18		В	BYPASS	4	1207	B J59	29
319	3 19	DOJOB	MCW	IMAGE+20, PUNCH+79	7	1211	M 020 179	29
320	3 20		В	BYPASS	4	1218	B J59	30
321	3 21	#						
322	3 22	* PROC	ESS I	NSTRUCTION				
323	3 23	#						
324	3 24	INSTR	MCW	DMOD, PUNCH+42	7	1222	M 074 142	30
325	3 25		MCW		1	1229	M	30
326	3 26		MCW		1	1230	M	30
327	3 27		MCW		1	1231	M	30
328	3 28		MCW	LABADD, CNVADD	7	1232	M 061 +01	30
329	3 29		A	COUNT, CNVADD	7	1239	A 007 +01	30
330	3 30		S	'1',CNVADD	7	1246	S P28 +01	31
331	3 31	INSTXT	В	SETLOC	4	1253	В J67	31
332			В	WRITE2	4	1257	B K64	31
333	3 33		8	BYPASS	4	1261	B J59	31
334	3 34	#						
335	3 35	* PROC	ESS CO	DNSTANTS				
336	3 36	*						
337	3 37	CONST	Α	*00*,COUNT	7	1265	A Q65 007	31
338	3 38		C	COUNT, *00*	7	1272	C 007 Q65	31
339	3 39		BL	*+5 .	5	1279	B S88 T	31
340	3 40		В	BYPASS	4	1284	B J59	32
341	3 41		BCE	PCHCON, IMAGE+23,=	8	1288	B T44 023 =	32
342	3 42		BWZ	PCHCON, IMAGE+4,B	8	1296	V T44 004 B	32
343	3 43		MCW	IMAGE+53,HOLDDT-22	7	1304	M 053 R26	32
344	3 44		BCE	ALPHA, IMAGE+23, 1	8	1311	B T23 023 *	32
345	3 45		В	PCHCON	4	1319	B T44	32
346	3 46	ALPHA	MCW	+HOLDDT-51,XR1	7	1323	M Q68 089	33
347	3 47		A	COUNT, XR1	7	1330	A 007 089	33

SEQ PG LIN	LABEL	OP	OPERANDS	SFX C	T L	OCN	INSTRUCTION	I TYPE	CARD
348 3 48		MCW	BLANK1=1,XXXX+X1		7 1	337	M Q69 0+0		33
349 3 49	PCHCON		HOLDDT-20, PUNCH+66			344	M R28 166		33
350 3 50	FUNCTION	MCW	LABADD, CNVACD			351	M 061 +01		33
351 3 51		C	COUNT, '32'			358	C 007 971		34
352 3 52		BL	LARGE			365	B T82 T		34
353 3 53		BCE	PRODC, TYPE, A			370	B U47 075 A	1	34
354 3 54		В	INSTXT			378	B \$53		34
355 3 55	*	J	INSTAT		7 4		0 373		74
356 3 56		TANT G	REATER THAN 32 CHARACTERS		***	American Control of the Control	Maria water, 1997		
357 3 57	*		MENTER HIM JE GHANAGTENS						
358 3 58	LARGE	S	'32',COUNT		7 1	382	S Q71 007		34
359 3 59	CANOL	S	COUNT, CNVADD			1389	S 007 +01		34
360 3 60		MCW	COUNT, HOLDCT=2			396	M 007 Q73		35
361 3 61		MCW	*32*,COUNT			403	M Q71 007		35
362 3 62		В	SETLOC			410	B J67		35
363 3 63		BCE	LRGDC, TYPE, A			414	B U94 075 /	1	35
364 3 64	LRGXT	MCW	HOLDCT, COUNT			422	M Q73 007	•	35
365 3 65	LNGAI	MCW	HOLDDT, TEMP=20			429	M R48 Q93		36
366 3 66		В	WRITE2			436	B K64		36
367 3 67		MCW	TEMP, PUNCH+54			440	M Q93 154		36
368 3 68	*	MCN	TEMPTPONCHITAT		1 1	. 440	n waa lat		7.0
369 3 69	* PROC	ECC DO	•						
370 3 70	* FRUC	E33 DU	•				•		
371 3 71	PRODC	MCW	LABADD, CNVADD		7 1	447	M 061 +01		36
372 3 72	PRODU	S	COUNT, CNVADD			454	S 007 +01		36
373 3 73			11, CNVADD			461	A P28 +01		36
374 3 74		A B	CNVRT			468	B K11		37
375 3 75		MCW	CNVWK, PUNCH+30			472	M +04 130		37
376 3 76		MCW	1)1			479	M Q94		37
377 3 77		MCW	LABADD, CNVADD			483	M 061 +01		37
378 3 78		B	INSTXT			490	B S53		37
379 3 79	#	ь	INSTAT		T 1	. 4 70	0 333		<i>3</i> 1
380 3 80		DEATED	THAN 32 CHARACTERS						
381 3 81	*	KEHIER	THAN 32 CHARACIERS						
		MCW	LABADD, CNVADD		7 1	494	M 061 +01		37
382 3 82 383 3 83	ENGLE	S	HOLDCT. CNVADD			501	S Q73 +01		38
384 3 84		S	*31*,CNVACD			508	S Q96 +01		38
385 3 85		B	CNVRT			515	B K11		38
386 3 86		MCW	CNVWK, PUNCH+30			519	M +04 130		38
387 3 87		MCW	1)1			526	M Q94		38
388 3 88		В	LRGXT			530	B U22		38
389 3 89	*	b	LNOXI		7 1	. 7 3 0	D 022		70
390 3 90		A CARE	FOR CONSTANT OVER 32 CHARACTERS						
391 3 91	* [7]	A UMINU	TON CONSTRUCTEN SE CHANACIENS						
392 3 92	XTRA	BCE	BYPASS, IMAGE+21,		8 1	534	B J59 021		39
393 3 93	AINA	MCW	IMAGE+73, HOLDDT=52			542	M 073 R48		39
394 3 94		CHAIN				1 &	II VIJ KTO	MACRO	<i>J</i> ,
395		MCM	• •		1 1	549	м	GEN	39
396		MCW				550		GEN	39
397		MCW				.551		GEN	39
J) 1		11011		•	- *		••	W 12 17	,

SEQ PG LIN	LABEL OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
200	***		•	1663	u ceu	20
398	MCW MCW		1	1552 1553	M GEN M GEN	39 39
399 400	MCW		1	1554	M GEN	40
401 3 95	В	BYPASS	4	1555	B J59	40
402 3 96	#	011 1100	•			
403 3 97	* PROCESS	DSA				
404 3 98	*					
405 3 99	DSA MCW		7	1559	M 073 137	40
406 4 00	BCE		8	1566	B U47 075 B	40
407 4 01	MCW		7	1574	M 061 +01	40
408 4 02	В	INSTXT	4	1581	B \$53	40
409 4 03	# DDOCECC	DESTAIS ADSA				
410 4 04 411 4 05	* PKUCE33	DEFINE AREA				
412 4 06	DA BCE	BYPASS, TYPE,-	8	1585	B J59 075 -	40
413 4 07	BCE		8	1593	B W24 075 0	41
414 4 08	*	. Hendany in a yo	•			
415 4 09	* FIELD, F	TIELD REPEAT				
416 4 10	#					
417 4 11	FIELD MCW	SUPADD, CNVADD	7	1601	M 066 +01	41
418 4 12	В	DARTN	4	1608	8 W47	41
419 4 13	BCE		8	1612	B W01 075 #	41
420 4 14	В	ANALYZ	4	1620	B /20	41
421 4 15	*	HEADED DEDCAT				
422 4 16 423 4 17		HEADER REPEAT				
423 4 17 424 4 18	# HEADER MCW	LABADD, CNVADD	7	1624	M 061 +01	41
425 4 19	B	DARTN	4	1631	B W47	42
426 4 20	BCE		8	1635	B W24 075 ‡	42
427 4 21	8	ANALYZ	4	1643	8 /20	42
428 4 22	#					
429 4 23	* DA SUBRO	DUTINE				
430 4 24	*					
431 4 25	DARTN SBR				H W81	42
432 4 26	В	CNVRT	4	1651	B K11	42
433 4 27	MCW	100 may 100 ma	7.	1655 1662	M +04 126	42 42
434 4 28 435 4 29	MCW MCW		4 4	1666	M +04 M R49	43
436 4 30	В	WRITE2	4	1670	B K64	43
437 4 31	B	GET	4	1674	B -76	43
438 4 32	DAXT B	XXXX	4	1678	B 000	43
439 4 33	*					
440 4 34	* PROCESS	EX, END				
441 4 35	*					
442 4 36	EXEND BCE		8	1682	B X58 075 3	43
443 4 37	MCW		7	1690	M 070 130	43
444 4 38	MCW		4	1697	M R50	43
445 4 39 446 4 40	MCW	'N000000' WRITE2	4	1701 1705	M R57 B K64	44 44
446 4 40 447 4 41	B LCA		7	1709	L Q43 124	44
चच। च चि⊥	LUA	TO T	•	1107	- 417 TEL	77

SEQ	PG	LIN	LABEL	OP	OPERANDS			SFX CT	LOCN	INSTRUCTION TY	PE CARD
448		42		LCA	*B007*			4	1716	L P35	44
449		43		В	GET				1720	B -76	44
450		44		BCE	ISJOB, TYPE, I	•	••••••••••••••••••••••••••••••••••••••	8	1724	B X47 075 I	44
451		45	COMPAT		WRITE1			4	1732	B -30	44
452		46	00 A.	LCA	'L ',PUNCH+26			7	1736	L R64 126	45
453		47		В	ANALYZ			4	1743	B /20	45
454		48	ISJOB	MCW	IMAGE+20, PUNCH+79			7	1747	M 020 179	45
455		49		В	COMPAT			4	1754	B X32	45
456		50	*			•					
457	4	51	* END								
458	4	52	*								
459		53	END	MCW	1/ 0801,PUNCH+26			7	1758	M R71 126	45
460		54		MCW	AOP, PUNCH+23			7	1765	M 070 123	45
461		55		В	WRITE2			4	1772	B K64	46
462		56		WTM	OUTAPE			5	1776	U (U6 M	46
463		57	EOJOB	BW	PUNCH4, PNH4SW			8	1781	V X93 P26 1	46
464		58		В	ENDJOB			4	1789	B - 55	46
465		59	# 011MC1	4 11 7 12	COURCE DECK						
466		60		H NEW	SOURCE DECK						
467		61	* PUNCH4	C c	PUNCH+80			4	1793	/ 180	46
468 469		62 63	PUNCHA	MCW	11131,LGTCK+6			7	1797	M R74 058	46
470		64		RT	4, PUNCH+1			8	1804	M (U4 101 R	47
471		65		В	CHKLGT			4	1812	B 037	47
472		66		BER	TPERR			5	1816	B M33 L	47
473		67		BCE	DOLTO, PUNCH+75,L			8	1821	B Z54 175 L	47
474		68		BCE	PUNCH4.PUNCH+75.S			8	1829	B X93 175 S	47
475		69		BCE	PUNCH4, PUNCH+75, C			8	1837	B X93 175 C	48
476		70		BCE	PUNCH4, PUNCH+75, Z			8	1845	B X93 175 Z	48
477		71		BCE	PUNCH4, PUNCH+75, Y			8	1853	B X93 175 Y	48
478		72	BUMP	Α	+1,SEQCT-1			7	1861	A R75 097	48
479	4	73		MCW	SEQCT, PUNCH+5			7	1868	M 098 105	48
480	4	74		BCE	DOPCH, PUNCH+6, *			8	1875	B Z13 106 *	49
481		75		MCW	BLANK4=4,PUNCH+15			7	1883	M R79 115	49
482		76		С	PUNCH+18, JCB					C 118 P14	49
483		77		BU	DOPCH			5	1897	B Z13 /	49
484		78		MCW	BLANK4, PUNCH+11			7	1902	M R79 111	49
485		79		MCW	BLANK4-2			4	1909	M R77	49
486		80	DOPCH	MCW	BLANK4-1, PUNCH+75			7	1913	M R78 175	50 50
487		81		b b				1 2	1920 1921	4 K 4	50 50
488		82		SS	4 DUNCH 10 15ND1			7	1923	C 118 R82	50
489		83		C	PUNCH+18, END			5	1930	B X93 /	50
490 491		84 85		BU BCE	PUNCH4 PUNCH+6,*			8	1935	B X93 106 *	50
491		86		CS	PUNCH+80			4	1943	/ 180	50
493		87		P P	1 GHOII CU			ĭ	1947	4	51
494		88		SS	8			2	1948	К 8	51
495		89		В В	ENDJOB			4	1950	B -55	51
496		90	DOLTO	MCW	'LTORG', PUNCH+20			7	1954	M R87 120	51
497		91	· -	В	BUMP			4	1961	B Y61	51
	•				-						

SEQ	PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
498	4 92		DCW	• •	1	1965		51
499	4 93	ENDF1	DCW	1 1	1	1966		51
500	4 94		XFR	LIBRN			В 000	52

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1401 AUTOCOCER-PASS 8 LOAD TAPE-RIGHT MAIN-VERSION 3

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX (CT	LOCN	INSTRUCTIO	N TYPE	CARD
501		95		JOB	1401 AUTOCODER-PASS 8-LOAD TAPE-LEFT MAIN -VERSION	3					
502	. 4	96		ORG	2000				2000		
503	4	97	OUTOPN	DCM	1 1		1	2000			55
504	4	98	SSOP	DCW	181		1	2001			55
505	4	99		RTW	1,1		8	2002	L (U1 001	R	55
506	5	00		NOP	XXXX		4	2010	N 000		55
507	5	01		BER	TPERR		5	2014	B M33 L		55
508	5	02		CW	ENDF1, ENDF2		7	2019) Z66 I98		55
509	5	03		8	INITLZ		4	2026	B 340		55
510	5	04	*								
511	5	05	* WRITE	E CLEA	R STORAGE AND BOOTSTRAP						
512	5	06	* .								
513	5	07	WRITE1	SBR	WT1XT+3		4	2030	H -54		56
514		08		WTW	OUTAPE, OUTPUT		8	2034	L (U6 101	W	56
515	5	09		NOP	XXXX		4	2042	N 000		56
516		10		BER	TPERR		5	2046	B M33 L		56
517		11	WT1XT	В	XXXX		4	2051	B 000		56
518		12	#								
519		13	# GO 8/	ACK TO	PASS E FOR EXTRA CUTPUT						
520		14	*								
521		15	ENDJOB	RTW	1,333		8	2055	L (U1 333	R	56
522		16	2.1.5005	NOP	XXXX		4	2063	N 000		56
523		17		BER	TPERR		5	2067	B M33 L		57
524		18		8	MESSAG		4	2072	B 333		57
525		19	*	•	TIC 3 3 AU		•	20.2	5 555		,
526		20		IEVE I	NPUT RECORD						
527		21	*	1 L V L 1	TO THE COME						
528		22	GET	SBR	GETXT+3		4	2076	H J58		57
529		23	UL.	C	BLKCT, KBLKNG		7	2080	C P04 P01		57
530		24		BU	NXTREC		5	2087	B J20 /		57
531		25		S	HOLDA		7	2092	S P05		57
532		26		MCW	+INPUT+13,LGTCK+6		7	2096	M R90 058		57
		27		RT	INTAPE, INPUT		8	2103	M (U5 +28	Ð	58
533							4	2111	B 037	N	58
534 535		28		В	CHKLGT						58
535		29	NYTOCC	BER	TPERR		7		B M33 L		
- 536		30	NXTREC		+80,BLKCT		7	2120	A R92 P04		58 50
537		31		MCW	BLKCT, XR3		7	2127	M P04 099		58 58
538		32		MCW	INPUT-1+X3, IMAGE+80		7	2134	M +B7 080	MACOO	20
539	כ	33		CHAIN	8			01/1		MACRO	e o
540				MCW			1	2141	М	GEN	58
541				MCW			1	2142	M	GEN	59
542				MCW			1	2143	M	GEN	59
543				MCW			1	2144	M	GEN	59
544				MCW			Ţ	2145	M	GEN	59 50
545				MCW			Ţ	2146	M	GEN	59 50
546				MCW			Ţ	2147	M	GEN	59
547				MCW			1	2148	M	GEN	59
548		34		S	XR3+1		4	2149	S 100		60
549		35		S			1	2153	S		60
550	5	36		S			1	2154	S		60

SEQ PO	G LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
551	5 37	GETXT	В	xxxx	4	2155	в 000	60
	5 38	#	U	^^^	•	2177	8 000	00
	5 39	* DO N	FXT RE	CORD	•			
	5 40	*						
	5 41	BYPASS	В	GET	4	2159	B -76	60
	5 42		В	ANALYZ	4	2163	B /20	60
	5 43	#						
	5 44	* SET	ADDRES	SES IN OUTPUT				
559	5 45	*						
560	5 46	SETLOC	SBR	LOCXT+3	4	2167	H K10	60
561	5 47		В	CNVRT	4	2171	B K11	61
	5 48		MCW	CNVWK, PUNCH+26	7	2175	M +04 126	61
	5 49		ZA	+34,CNVADD	7	2182	+ R94 +01	61
	5 50		Α	COUNT, CNVADD	7	2189	A 007 +01	61
	5 51		В	CNVRT	4	2196	B K11	61
	5 52		MCW	CNVWK, PUNCH+23	7	2200	M +04 123	61
	5 53	LOCXT	8	XXXX	4	2207	В 000	62
	5 54	#						
	5 55	* CONV	ERT 5	TO 3 DIGIT ACDRESS				
	5 56	#						
	5 57	CNVRT	SBR	CNVXT+3	4	2211	H K63	62
	5 58		BAV	*+1	5	2215	B K20 Z	62
	5 59	ADDAGN		+96,CNVADD-3	7	2220	A R96 R98	62
-	5 60		BAV	ADDAGN	5	2227	B K20 Z	62
	5 61		MZ	CNVADD-4, CNVADD=5	7	2232	Y R97 +01	62
	5 62		MN	CNVADD-3,*+4	7	2239	D R98 K49	62
	5 63		MZ	ZONE, CNVADD-2	7	2246	Y 339 R99	63
	5 64		MCW	CNVADD, CNVWK=3	7	2253	M +01 +04	63
	5 65	CNVXT	В	XXXX	4	2260	В 000	63
	5 66	# .						
	5 67	* WRIT	E CUTP	UT RECORDS				
	5 68	*				2211		
	5 69	WRITE2		WT2XT+3	4		H L30	63
	5 70		BCE	DOGM, PUNCH+35,	8	2268	B L31 135	63
	5 71		WTW	OUTAPE, OUTPUT+19	8		L (U6 120 W	63
	5 72		NOP	XXXX.	4	2284	N 000	64
	5 73		BER	TPERR	5	2288	B M33 L	64
	5 74		NOP	01.410/3.00/20/200	1	2293	N N 0/0 175	64
	5 75	CLEAR	MCW	BLANK1, PUNCH+75	7	2294	M Q69 175	64
	5 76		MCW	PUNCH+75	4	2301	M 175	64
	5 77		MCW	BLANK1, HOLDOT	7	2305	M Q69 R48	64
	5 78		MCW	HOLDDT	4	2312	M R48	64
	5 79		MCW	*N000*, PUNCH+30	1	2316	M Q51 130	65 45
	5 80	LITTYT	MCW	-	4	2323	M +11 B 000	65 65
	5 81	WT2XT	В	XXXX	4	2327		65 65
	5 82 5 93	DOGM	CS	299	7	2331	/ 299 L 180 280	65
	5 83 5 84		LCA	PUNCH+80,28C	1	2335 2342		65
	5 84 5 05		LCA MCW	DUNCH466 . 274	7	2342	L M 166 274	65
	5 85 5 84			PUNCH+66,274	4	2350	L Q43	66
600	5 86		LCA		7	2310	€ 413	00

CEA	0.0		1 4051	0.0	ODEDANOC	SFX CT	LOCN	INSTRUCTION TYPE	CARD
SEW	P6	LIN	LABEL	OP	OPERANDS	SEX CI	LUCN	INSTRUCTION TIPE	CARD
601		87		LCA	'B007'	4	2354	L P35	66
602		88		LCA	1)0430431	4	2358	L +18	66
603		89		LCA	PUNCH+26	4	2362	L 126	66
604		90		LCA	1,0431	4	2366	L +22	66
605		91		SW	225,235	7	2370	, 225 235	66
606		92		Α	+8,227	7	2377	A +23 227	66
607		93		CM	225	4	2384) 225	67
 608		94		BCE	WTGM, PUNCH+27, N	8	2388	B M03 127 N	67
609		95		MCW	PUNCH+30,237	7	2396	M 130 237	67
610		96	WTGM	CW	235	4	2403) 235	67
611		97		WTW	OUTAPE,220	8	2407	L (U6 220 W	67
612		98		NOP	XXXX	4	2415	N 000	67
613		99		BER	TPERR	5	2419	B M33 L	68
614		00		NOP		1	2424	N	68
615		01		CW	280	4	2425) 280	68
616		02		В	CLEAR	4	2429	B K94	68
617		03	#						
618		04	* TAPE	REDUN	DANCY ROUTINE				
619		05	*			_			
620		06	TPERR	SBR	XR2	4	2433	H 094	68
621		07		SBR	REDXT+3	4	2437	H N05	68
622		80		MZ	+9,XR2	7	2441	Y +24 094	68
623		09		MCW	4000-10+X2, TPINST+7	7	2448	M IRO M96	69
624		10		MN	TPINST+3,8SP1+3	7	2455	D M92 M72	69
625		11		MCW	TPINST+7, INST2+7	7	2462	M M96 005	69
626		12	BSP1	BSP	INITAP	5	2469	U (U0 B	69
627		13		BCE	WRTRED, TPINST+7, W	8	2474	B N78 M96 W	69
628		14	****	MCW	+9,READCT=1	7	2482	M +24 +25	70
629		15	TPINST		INITAP, XXXX	8	2489	M (UO 000 R	70
630		16	OCONT	BER	RDRERR	5	2497	B N06 L	70
631		17	REDXT	В	XXXX	4	2502	B 000 D M92 N16	70 70
632		18	RDRERR		TPINST+3,8SP2+3	7	2506		70 70
633		19	BSP2	BSP	INITAP	5 7	2513 2518	U (UO B S R75 +25	70 71
634		20		S B to 7	+1,READCT			V M89 +25 B	71
635		21		BWZ	TPINST, READCT, B	8	2525 2533	D M92 N46	71
636 637		22 23	TPHALT	MN.	TPINST+3,TPHALT+6	7	2540	. 000 890	71
638		24	IPHALI	MCW	XXXX,890 TPINST+7,*+8	7	2547	M M96 N61	71
639		25		RT	INITAP, XXXX	8	2554	M (UO 000 R	72
640		26		BSS	BSP1,E	5	2562	B M69 E	72
641		27		H	XXXX,811	7	2567	. 000 811	72
642		28		В	REDXT	4	2574	B NO2	72
643		29	WRTRED		1	5	2578	U (U1 E	72
644		30	MAINED	BCE	SUBCTR, WRTCTR-1,5	8	2583	B 015 +26 5	72
645		31		A	+1,WRTCTR=2	7	2591	A R75 +27	73
646		32	INST2	WT	INITAP,XXXX	8	2598	M (UO 000 W	73
647		33	411 J 1 4	BER	BSP1	5	2606	B M69 L	73
648		34		В	REDXT	4	2611	B NO2	73
649		35	SUBCTR	_	WRTCTR	4	2615	S +27	73
650		36	JJJJ 1 11	MN ·	TPINST+3,*+7	7	2619	D M92 D32	73
J > 0	•	J 0			to endited at the	*		ar the management	

SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION	TYPE	CARD
651	6	37		Н	XXXX,860	7	2626	. 000 860		74
652		38		В	INST2	4	2633	B N98		74
653	6	39	#							
654	6	40	* CHECK	C FOR S	SHORT RECORD					
655	6	41	#							
656	6	42	CHKLGT	SBR	XR2	4	2637	H 094		74
657	6	43		SBR	LGTXT+3	4	2641	H 075		74
658	6	44		MZ	+9,XR2	7	2645	Y +24 094		74
659	6	45	LGTCK	BCE	4000-12+X2,XXXX,	8	2652	B IQ8 000		74
660	6	46		CHAIN	12				MACRO	
661				BCE		1	2660	В	GEN	74
662				BCE		1	2661	В	GEN	75
663				BCE		1	2662	В	GEN	75
664				BCE		1	2663	В	GEN	75
665				BCE		1	2664	В	GEN	75
666				BCE		1	2665	В	GEN	75
667				BCE		1	2666	В	GEN	75
668				BCE		1	2667	В	GEN	75
669				BCE		1	2668	В	GEN	76
670				BCE		1	2669	B	GEN	76
671				BCE		1	2670	В	GEN	76
672				BCE	WWW.	1	2671	B	GEN	76
673		47	LGTXT	В	XXXX	4	2672	B 000		76
674		48	BER1	DCW	'8001L'	5	2680			76
675		49	RDREC	DCW	'L(U1020R'	8	2688			76 77
676		50	BSPTU1		'U(U1B'	5 5	2693 2698			77
677		51	SECCT	DCW	10100	3	2701			77
678		52	KBLKNG		080	<i>3</i> 4	2701			77
679		53	HOLDA BLKCT	DCW EQU	+0000 HOLDA-1	**	2704			
680 681		54 55	GRPMRK		1 1	1	2706			77
682		56	GRENKK	LTORG			2100	2707		* 1
002	b	70		DCW	121	1	2707	2101	LIT	77
				DCH	171	i	2708		LIT	77
					'013'	3	2711		LIT	77
					J0B	3	2714		LIT	7.8
		152	IDENT		=04	4	2718		AREA	78
		153	JOBSW		=01	1	2719		AREA	78
			005011		'CTL'	3	2722		LIT	78
					1331	2	2724		LIT	78
		165	LTAPSW		=01	1	2725		AREA	78
		170	PNH4SW		=01	1	2726		AREA	78
					101	1	2727		LIT	79
					111	1	2728		LIT	79
					141	1	2729		LIT	79
					1 1	2	2731		LIT	79
					180071	4	2735		LIT	79
					'1021'	4	2739		LIT	79
		197			*8047L*	5	2744		LIT	79
		198			'L(U1001R'	8	2752		LIT	80

1401 AUTOCODER-PASS 8-LOAD TAPE-LEFT MAIN -VERSION 3

SEQ PG I	LIN	LABEL O)P	OPERANDS	SFX CT LOCN INSTRUCTION	TYPE	CARD
				+80	2 2992	LIT	89
				+34	2 2994	LIT	89
				+96	2 2996	LIT	89
5	575	CNVADD		=05	5 3001	AREA	89
<u>.</u>	578	CNVWK		=03	3 3004	AREA	89
	594			• [7 3011	LIT	89
(602			1)0430431	7 3018	LIT	89
				1,0431	4 3022	LIT	90
				+8	1 3023	LIT	90
				+9	1 3024	LIT	90
	628	READCT		=01	1 3025	AREA	90
	645	WRTCTR		=02	2 3027	AREA	90
683 6 5	57	*					
684 6 5	58	* INPUT	AREA				
685 6 5	59	•					
686 6 6	60			*+1	3028		
687 6 6				3998	3998		
688 6 6			/ U #	1 1	1 3998		91
689 6	63	х	(FR	LIBRN	B 000		92

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SEQ	PG	LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION	TYPE	CARD
690		64		JOB	1401 AUTOCODER-PASS 8 EXTRA OUTPUT OVERLAY-VERSION	3				
691		65		ORG	333			0333		
692		66	*							
693		67		I END	OF JOB MESSAGES					
694		68	*		•	2		<i>e</i> ,		0.5
695		69	MESSAG				0333	F 1		95
696		70		CS	332	4	0335	/ 332		95 95
697		71		CS MCH	'END OF ASSEMBLY', PRINT+15		0339	/ M 696 215		95
698		72		MCW	FUL OF W22EMDF1. * SKINIATO	,	0340	2		95 95
699 700		73 74		W CC	K	2	0347	F K		95
701		75		MCW	'IF EXTRA OUTPUT DESIRED, SET SENSE', PRINT+34		0350	M 730 234		95
702		76		MCW	'SWITCH F ON, AND', PRINT+51	7	0357	M 746 251		96
703		77		W	SHIPS TO MAN ALVINE ST	i	0364	2		96
704		78		Сc	J	2	0365	FJ		96
705		79		CS	PRINT+71	4	0367	/ 271		96
706		80		MCW	*B ON FOR CONDENSED CARDS**PRINT+24	7	0371	M 770 224		96
707		81		W	D DA TON CENDENCED OANDS TINIATTE	i	0378	2		96
708		82		MCW	C ON FOR LCADABLE TAPE 6, PRINT+24	7	0379	M 794 224		96
709		83		W	o on row advantage vin a o grinant ar	ì	0386	2		97
710		84		MCW	'D ON FOR LISTING TAPE 3', PRINT+24	7	0387	M 818 224		97
711		85		W		1	0394	2		97
712		86		MCW	'E ON TO SUPPRESS LISTING', PRINT+24	7	0395	M 842 224		97
713		87		W		1	0402	2		97
714		88		MCW	'G ON FOR NEW SOURCE DECK', PRINT+24	7	0403	M 866 224		97
715		89		W	• • • • • • • • • • • • • • • • • • • •	1	0410	2		97
716		90		CC	J	2	0411	FJ		98
717		91		CS	PRINT+24	4	0413	/ 224		98
718	6	92		MCW	*AND PRESS START*,PRINT+15	7	0417	M 881 215		98
719	6	93		W		1	0424	2		98
720	6	94		CC	K	2	0425	FK		98
721	6	95		MCW	'IF NO EXTRA OUTPUT DESIRED, PRESS START', PRINT+39	7	0427	M 920 239		98
722	6	96		W		1	0434	2		98
723		97		CC	1	2	0435	F 1		99
724				CW	GRPMRK	4) P06		99
-725		99		Н	XXXX,880	7	0441	. 000 880		99
726		00		BSS	GOTOE, F	5	0448	B 530 F		99
727		01		CS	PRINT+39	4	0453	/ 239		99
728		02		MCW	'END OF JOB', PRINT+10	/	0457	M 930 210		99
729		03		W		1	0464	2		99
730		04		CC	K	2	0465	FK		100
731		05		MCW	*INPUT FOR RE-ASSEMBLY ON TAPE UNIT 4*, PRINT+36	(0467	M 966 236		100
732		06		M	1	1	0474	2		100
733		07		RWD		, ,	0475 0480	U (U1 R U (U4 R		100
734		08		RWD	4) E	0480	U (U5 R		100 100
735		09		RWD	ر د) E	0490	U (U6 R		100
736 737		10 11		RWD BW	FINAL, LTAPSW	ر و	0490	V 517 P25 1		101
738		12		CS	236	4	0503	/ 236		101
739		13		MCW	*LOADABLE TAPE ON TAPE UNIT 6*, PRINT+28	7	0507	M 994 228		101
137	•	¥ J		1 · U #	FOMOROFF THE OIL THE OILL O PURISHING	•	5501	13 774 EEU		TOI

SEQ	PG LIN	LABEL	OP	OPERANDS	SFX CT	LOCN	INSTRUCTION	TYPE	CARD
740	7 14		СС	K	2	0514	FK		101
741	7 15		W		1	0516	2		101
742	7 16	FINAL	СС	1	2	0517	F 1		101
743	7 17		Н	XXXX,889	7	0519	. 000 889		101
744	7 18		В	FINAL+2	4	0526	B 519		102
745	7 19	GOTOE	CW	ENDF2, ENDF3	7	0530	198 998		102
746	7 20		CW	INPUT+80	4	0537) A08		102
747	7 21		CS	PUNCH+99	4	0541	/ 199		102
748	7 22		BSP	1	5	0545	U (U1 B		102
749	7 23		BSP	1	5	0550	U (U1 B		102
750	7 24		BSP	1	5	0555	U (U1 B		102
751	7 25		BSP	1	5	0560	U (U1 B		103
752	7 26		BSP	1	5	0565	U (U1 B		103
753	7 27		BSP	1	5	0570	U (U1 B		103
754	7 28		BSP	1	5	0575	U (U1 B		103
755	7 29		BSP	1	5	0580	U (U1 B		103
756	7 30		RTW	1,PASSE	8	0585	L (U1 Z00 R		103
757	7 31		BER	TPERR2	5	0593	B 602 L		103
758	7 32		В	PASSE+1	4	0598	B Z01		104
759	7 33	TPERR2		+9,READC=1	7	0602	M 995 996		104
760	7 34		BSP	1	5	0609	U (U1 B		104
761	7 35	RETRY	RTW	1, PASSE	8	0614	L (U1 Z00 R		104
762	7 36		BER	AGAIN	5	0622	B 631 L		104
763	7 37		В	PASSE+1	4	0627	B Z01		104
764	7 38	AGAIN	BSP	1	5	0631	U (U1 B		104
765	7 39		S	+1,READC	7	0636	S 997 996		105
766	7 40		BWZ	RETRY, READC, B	8	0643	V 614 996 B • 000 891		105
767	7 41		H	XXXX,891	7	0651 0658	L (U1 Z00 R		105 105
768	7 42		RTW	1,PASSE	8 5	0666	B 602 E		105
769	7 43		BSS	TPERR2,E	7	0671	• 000 812	and the second of the second	106
770	7 44 7 45		H	XXXX,812 PASSE+1	4	0678	B Z01		106
771 772	7 46		B LTORG		-	0070	0682		100
112	698		DCW	'END OF ASSEMBLY'	15	0696		LIT	106
	701		DUN	IF EXTRA OUTPUT DESIRED, SET SENSE!	34			LIT	107
	702			SWITCH F ON, AND!	16	0746		LIT	108
	706			*B ON FOR CONDENSED CARDS*	24	0770		LIT	109
	708			'C ON FOR LCADABLE TAPE 6'	24	0794		LIT	110
	710			D ON FOR LISTING TAPE 3'	24	0818		LIT	111
	712			'E ON TO SUPPRESS LISTING'	24	0842		LIT	112
	714			'G ON FOR NEW SOURCE DECK'	24	0866		LIT	113
	718			'AND PRESS START'	15	0881		LIT	113
	721			'IF NO EXTRA CUTPUT DESIRED, PRESS START'	39	0920		LIT	114
	728			'END OF JCB'	10	0930		LIT	115
	731			INPUT FOR RE-ASSEMBLY ON TAPE UNIT 4	36	0966		LIT	116
	739			*LOADABLE TAPE ON TAPE UNIT 6*	28	0994		LIT	117
				+9	1	0995		LIT	117
	759	READC		=01	1	0996		AREA	117
				+1	1	0997		LIT	117
773	7 47	ENDF3	DCW	1 1	1	0998			117

SEQ PG LIN	LABEL	OP 1	OPERANDS	SFX CT	LOCN	INSTRUCTION TYPE	CARD
774 7 48 775 7 49	PASSE		1900 LIBRN		1900	B 000	118

1401 AUTOCODER-PASS 8 EXTRA OUTPUT OVERLAY-VERSION 3

776 7 50

END

LIBRN

AUTÓ CODER ASSEMBLER

/ 000 080

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3783L